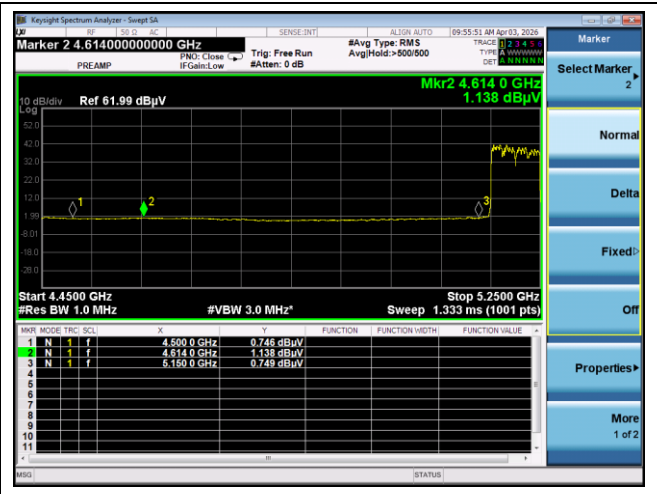
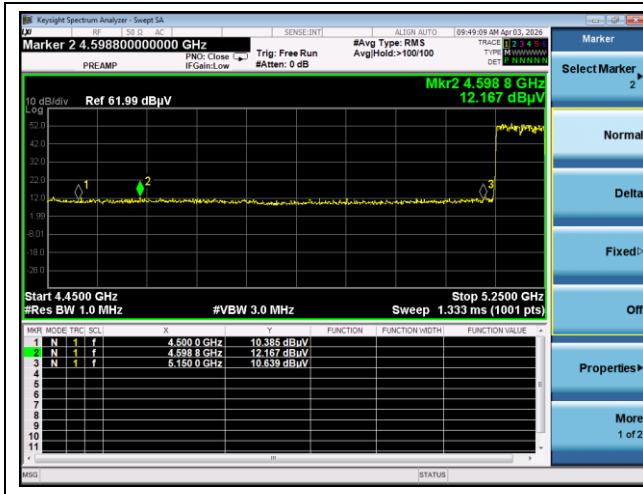


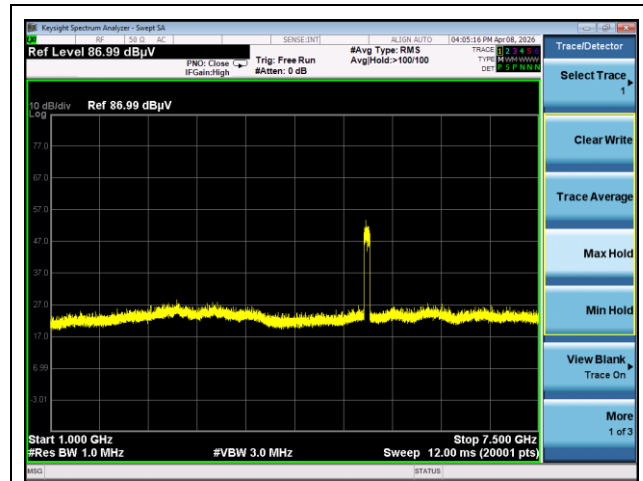
11ac_VHT80

Middle channel Band edge (Peak) - U-NII 1

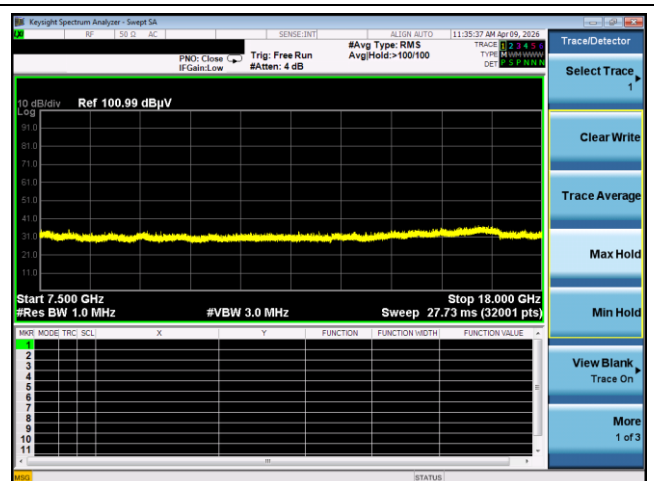
Middle channel Band edge (Average) - U-NII 1



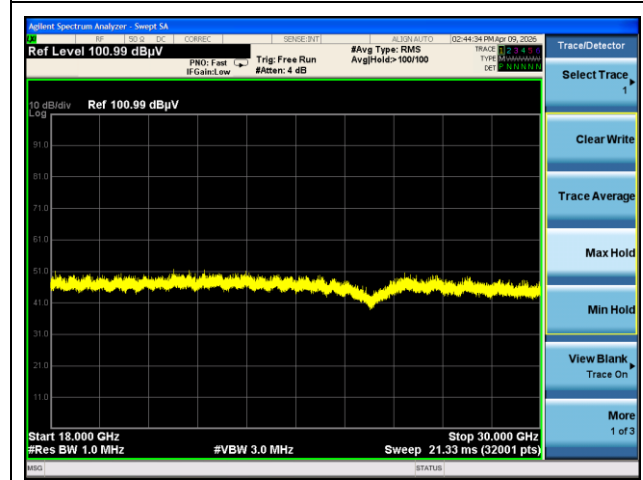
Radiated Spurious Emissions



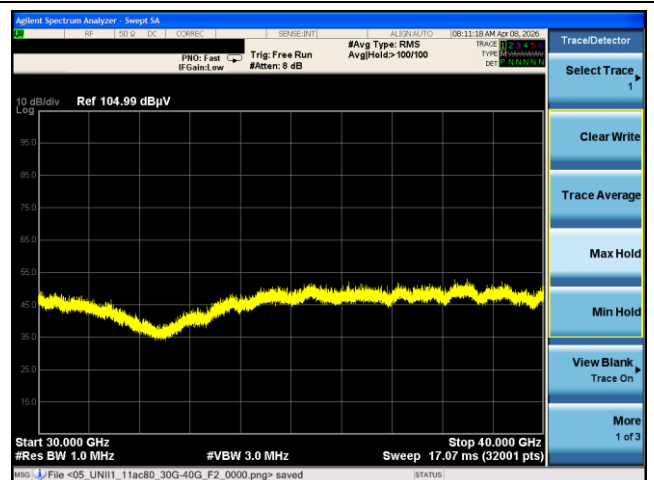
1 GHz ~ 7.5 GHz



7.5 GHz ~ 18 GHz



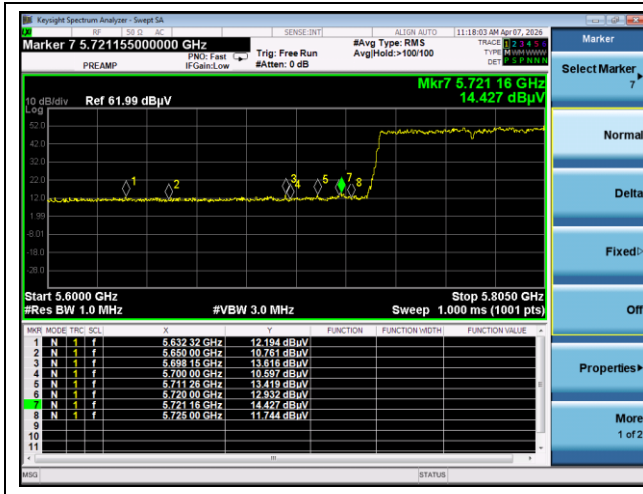
18 GHz ~ 30 GHz



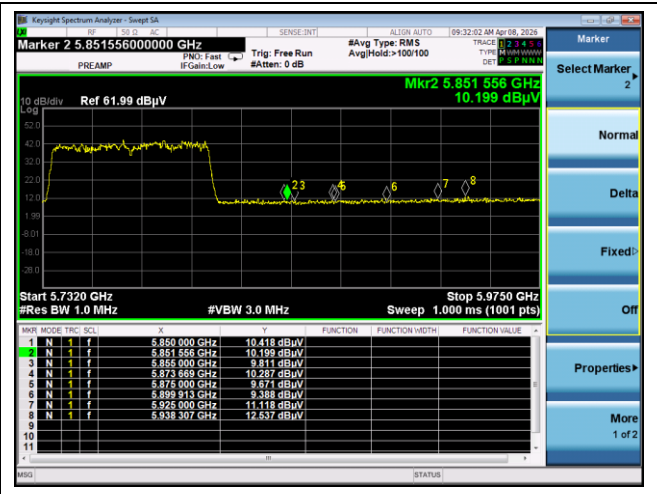
30 GHz ~ 40 GHz

11ac_VHT80

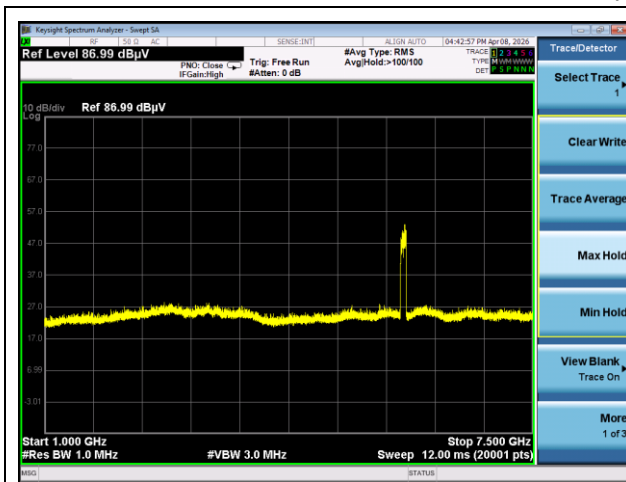
Middle channel Band edge (Peak) - U-NII 3



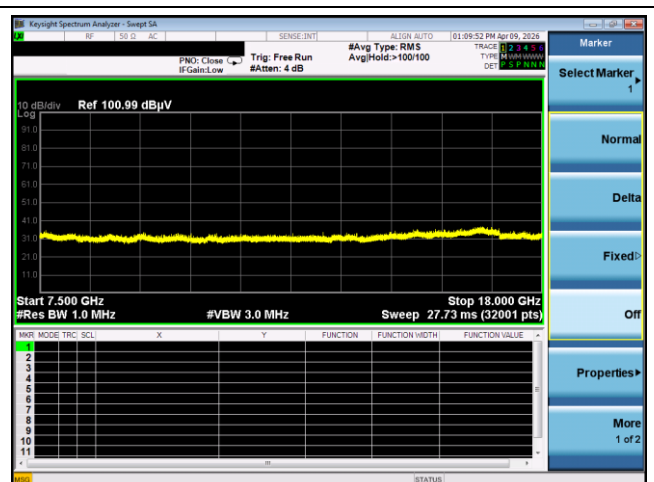
Middle channel Band edge (Peak) - U-NII 3



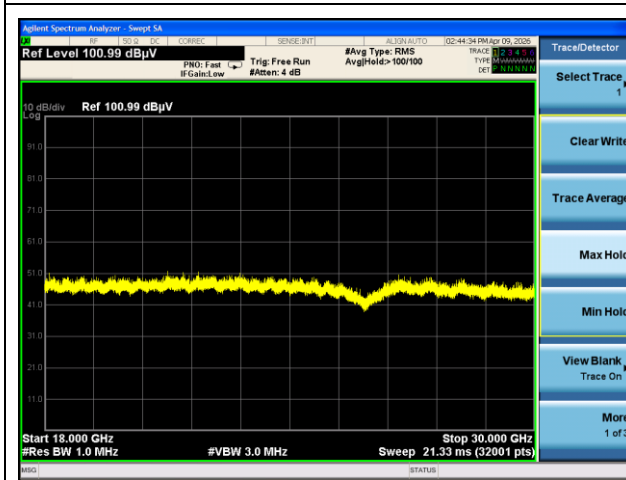
Radiated Spurious Emissions



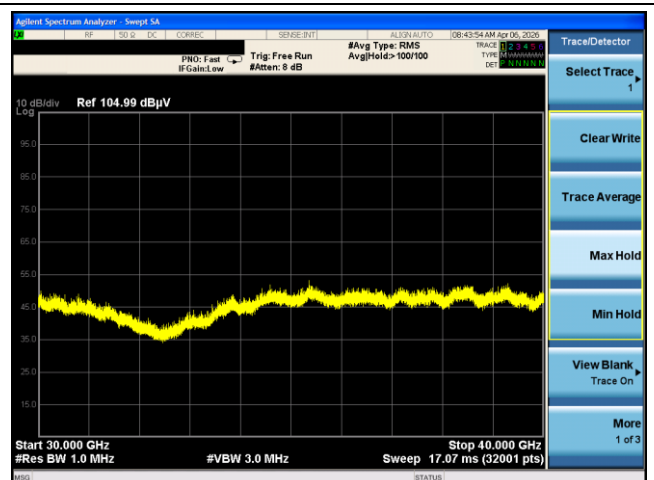
1 GHz ~ 7.5 GHz



7.5 GHz ~ 18 GHz



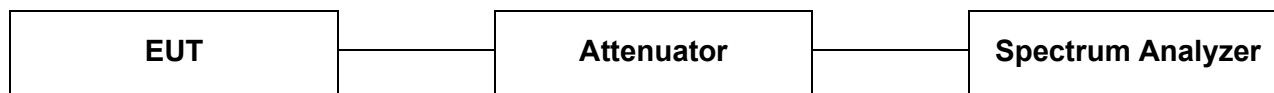
18 GHz ~ 30 GHz



30 GHz ~ 40 GHz

3. 26 dB Bandwidth & 99 % Bandwidth

3.1. Test Setup



3.2. Limit

None; for reporting purpose only.

3.3. Test Procedure

3.3.1. 26 dB Bandwidth

1. This measurement settings are specified in section II.C.1 of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set RBW = approximately 1 % of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1 %.

3.3.2. 99 % Bandwidth

The test follows section 6.9.3 of ANSI C63.10-2020.

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.6.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

3.4. Test Result

Ambient temperature : (23 ± 1) °C

Relative humidity : 47 %

- Ant. 1

Test mode: 11a

Band	Frequency (MHz)	Ch.	Data Rate	26 dB Bandwidth (MHz)	99 % Bandwidth (MHz)
U-NII 1	5 180	36	54 Mbps	20.420	16.943
	5 220	44		21.279	17.263
	5 240	48		19.960	16.703
U-NII 3	5 745	149		21.219	17.343
	5 785	157		21.359	17.502
	5 805	161		21.479	17.742

- Ant. 2

Test mode: 11a

Band	Frequency (MHz)	Ch.	Data Rate	26 dB Bandwidth (MHz)	99 % Bandwidth (MHz)
U-NII 1	5 180	36	54 Mbps	21.219	17.742
	5 220	44		21.099	17.383
	5 240	48		20.420	16.743
U-NII 3	5 745	149		21.299	17.383
	5 785	157		20.799	17.223
	5 805	161		21.339	17.423

- Ant. 3

Test mode: 11a

Band	Frequency (MHz)	Ch.	Data Rate	26 dB Bandwidth (MHz)	99 % Bandwidth (MHz)
U-NII 1	5 180	36	54 Mbps	21.079	16.903
	5 220	44		21.159	16.863
	5 240	48		21.139	16.863
U-NII 3	5 745	149		21.179	16.843
	5 785	157		21.159	16.843
	5 805	161		21.139	16.843

Test mode: 11n_HT20

Band	Frequency (MHz)	Ch.	Data Rate	26 dB Bandwidth (MHz)	99 % Bandwidth (MHz)
U-NII 1	5 180	36	MCS6	21.539	18.142
	5 220	44		21.339	18.182
	5 240	48		21.479	18.142
U-NII 3	5 745	149		21.598	19.221
	5 785	157		22.498	19.221
	5 805	161		21.898	19.301

Test mode: 11n_HT40

Band	Frequency (MHz)	Ch.	Data Rate	26 dB Bandwidth (MHz)	99 % Bandwidth (MHz)
U-NII 1	5 190	38	MCS6	39.041	36.044
	5 230	46		38.561	35.724
U-NII 3	5 755	151		39.161	36.204
	5 795	159		39.361	36.364

Test mode: 11ac_VHT80

Band	Frequency (MHz)	Ch.	Data Rate	26 dB Bandwidth (MHz)	99 % Bandwidth (MHz)
U-NII 1	5 210	42	MCS7	80.639	75.604
U-NII 3	5 775	155		81.199	76.244

- Ant. 1 + Ant. 2

Test mode: 11n_HT20

Band	Frequency (MHz)	Ch.	Data Rate	26 dB Bandwidth (MHz)		99 % Bandwidth (MHz)	
				Ant. 1	Ant. 2	Ant. 1	Ant. 2
U-NII 1	5 180	36	MCS7	21.439	21.279	18.182	18.022
	5 220	44		21.459	21.439	18.182	18.022
	5 240	48		21.439	21.359	18.222	18.022
U-NII 3	5 745	149		21.539	21.319	18.102	18.022
	5 785	157		21.359	21.279	18.062	18.022
	5 805	161		21.359	21.339	18.022	18.022

Test mode: 11n_HT40

Band	Frequency (MHz)	Ch.	Data Rate	26 dB Bandwidth (MHz)		99 % Bandwidth (MHz)	
				Ant. 1	Ant. 2	Ant. 1	Ant. 2
U-NII 1	5 190	38	MCS4	39.720	39.880	36.364	36.364
	5 230	46		39.800	39.720	36.444	36.364
U-NII 3	5 755	151		39.920	40.080	36.444	36.364
	5 795	159		39.880	39.840	36.444	36.284

Test mode: 11ac_VHT80

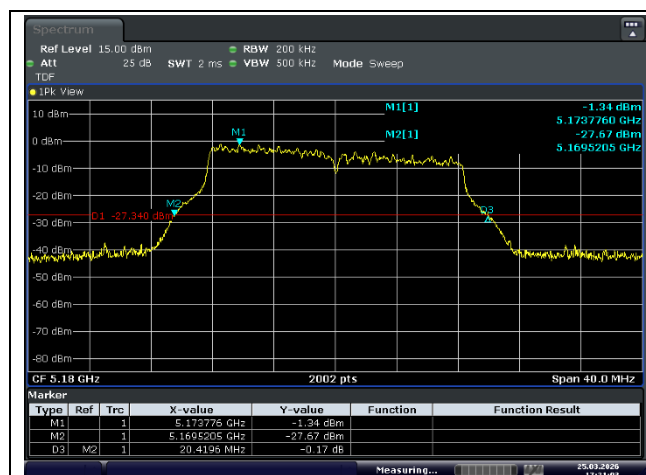
Band	Frequency (MHz)	Ch.	Data Rate	26 dB Bandwidth (MHz)		99 % Bandwidth (MHz)	
				Ant. 1	Ant. 2	Ant. 1	Ant. 2
U-NII 1	5 210	42	MCS4	81.439	80.799	75.764	75.445
U-NII 3	5 775	155		81.439	81.199	75.764	75.604

Test plots

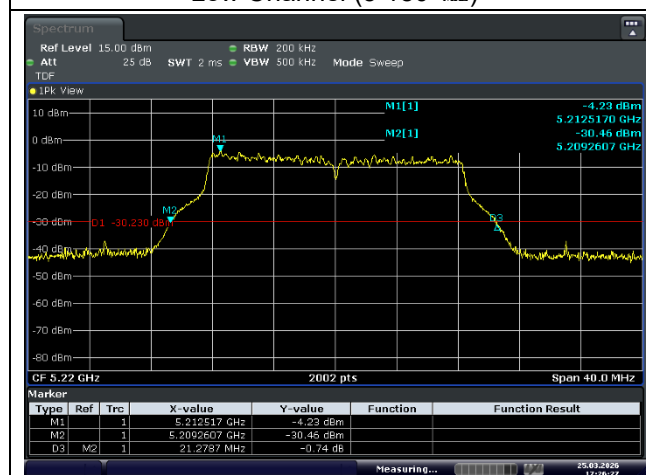
- Ant. 1

26 dB Bandwidth

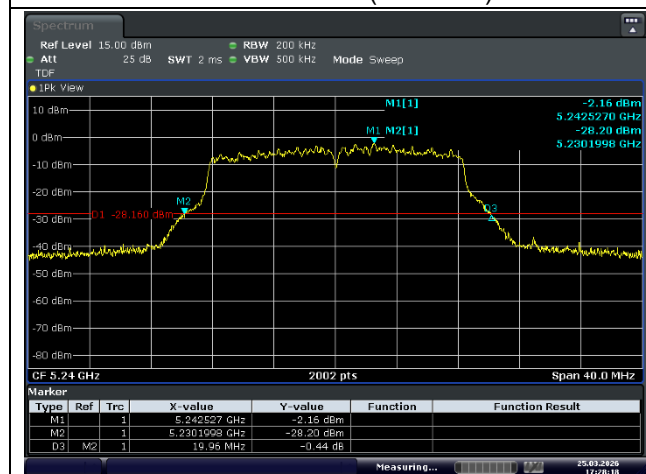
11a (U-NII 1)



Low Channel (5 180 MHz)

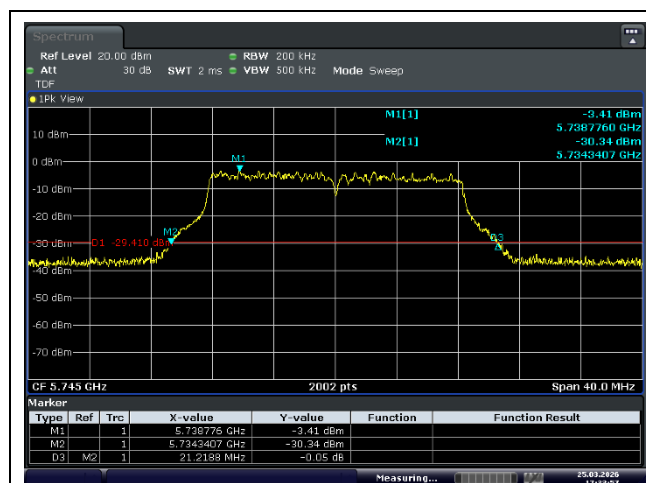


Middle Channel (5 220 MHz)

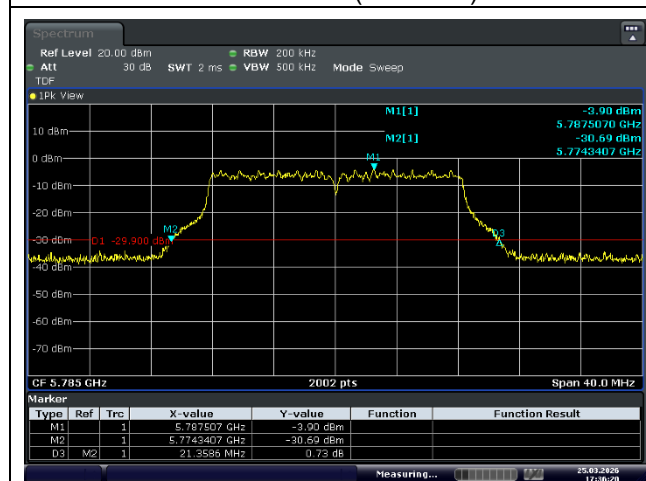


High Channel (5 240 MHz)

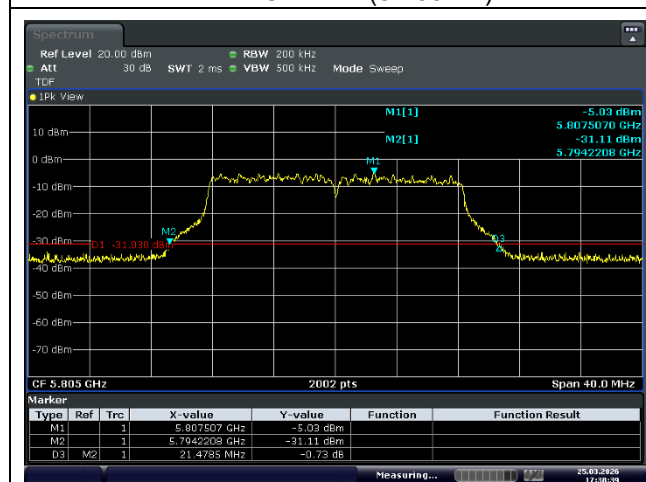
11a (U-NII 3)



Low Channel (5745 MHz)



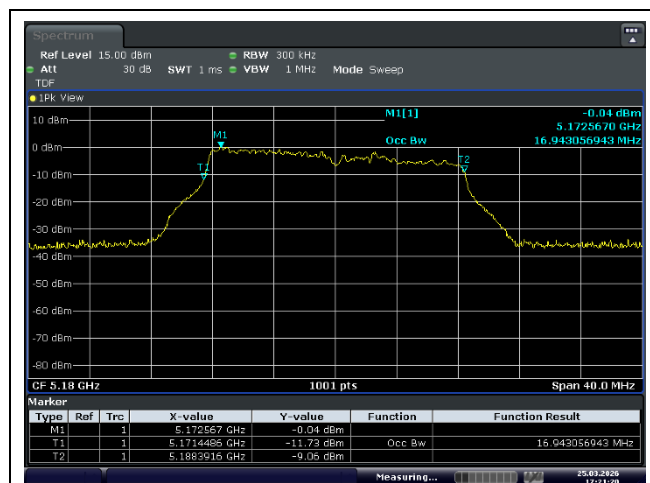
Middle Channel (5785 MHz)



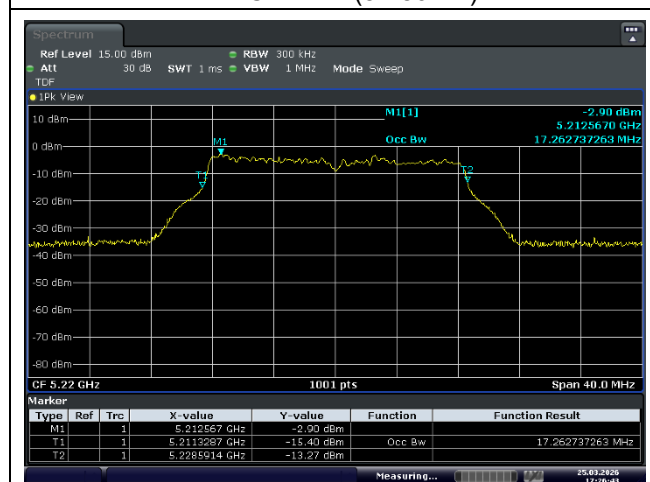
High Channel (5805 MHz)

99 % Bandwidth

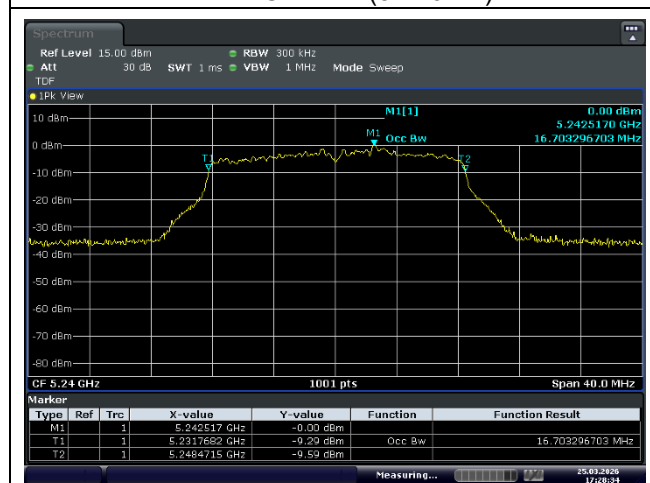
11a (U-NII 1)



Low Channel (5 180 MHz)

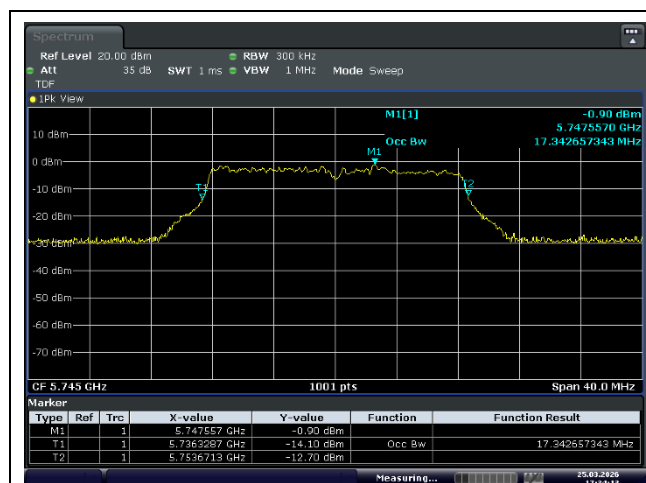


Middle Channel (5 220 MHz)

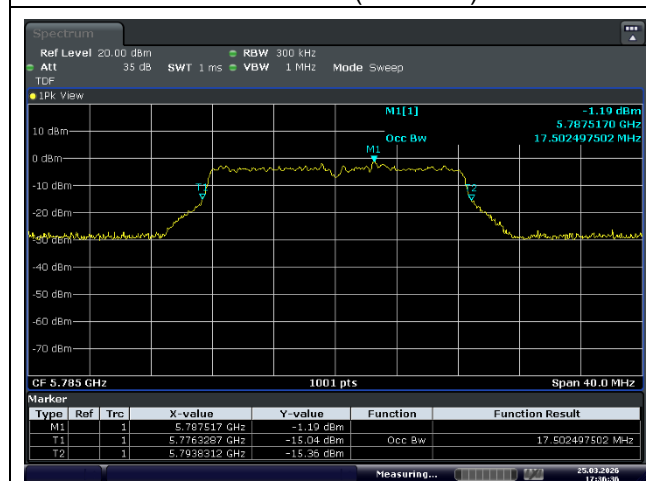


High Channel (5 240 MHz)

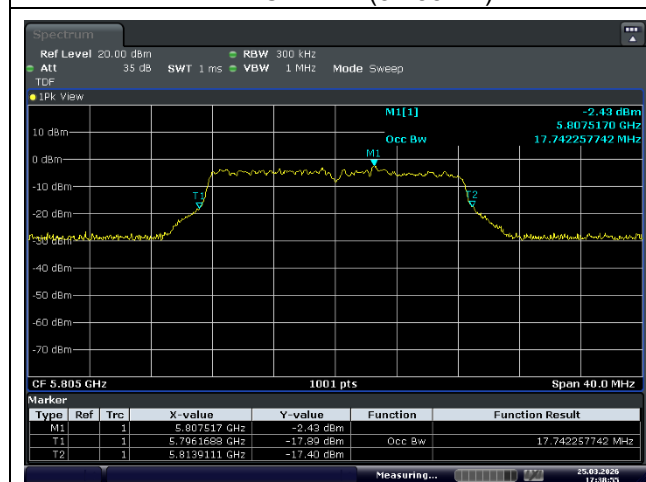
11a (U-NII 3)



Low Channel (5.745 MHz)



Middle Channel (5.785 MHz)

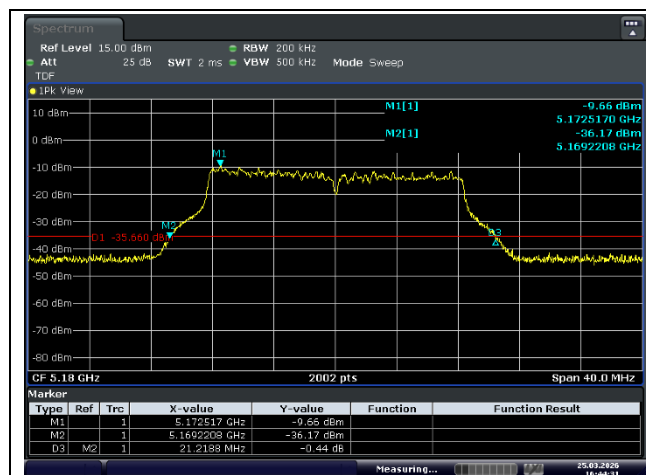


High Channel (5.805 MHz)

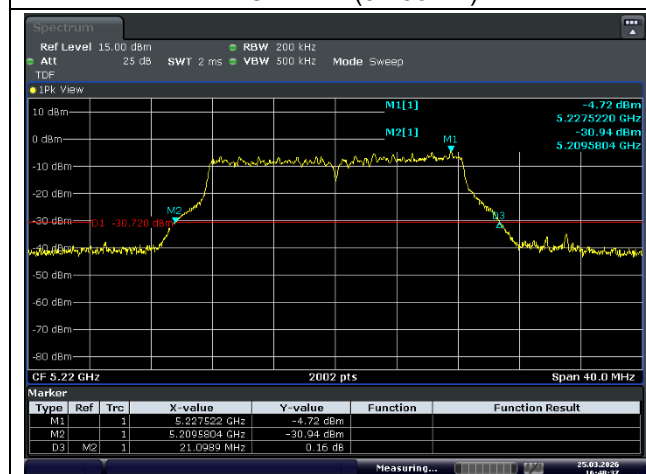
- Ant. 2

26 dB Bandwidth

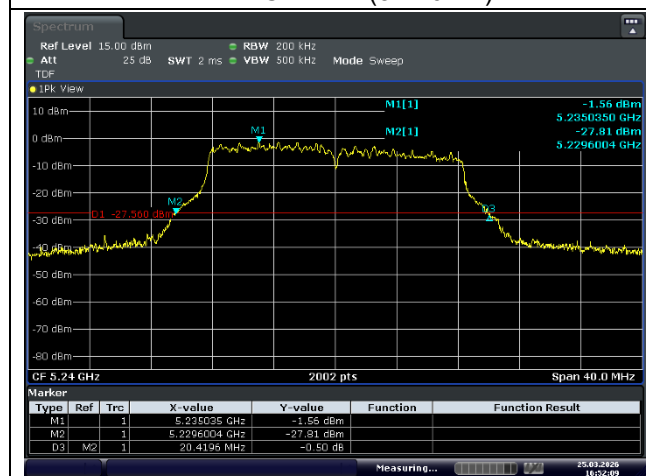
11a (U-NII 1)



Low Channel (5 180 MHz)

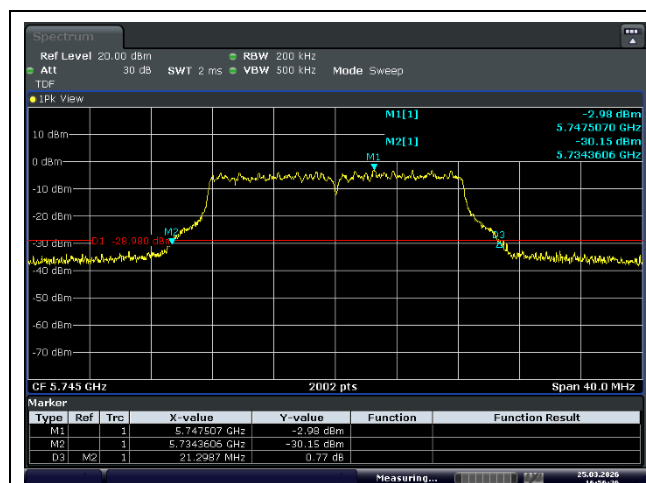


Middle Channel (5 220 MHz)

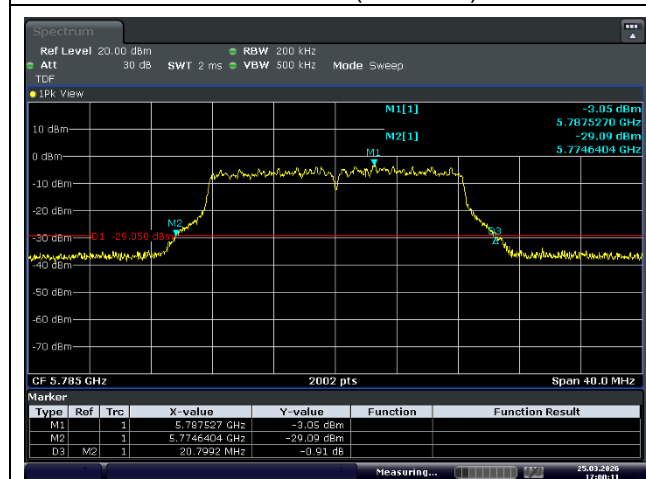


High Channel (5 240 MHz)

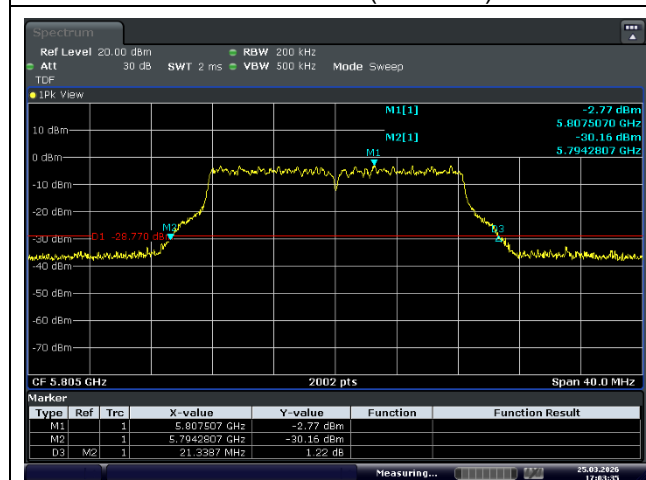
11a (U-NII 3)



Low Channel (5 745 MHz)



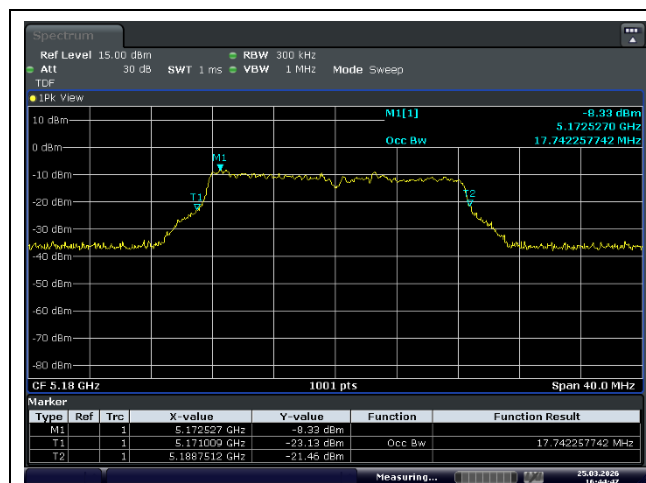
Middle Channel (5 785 MHz)



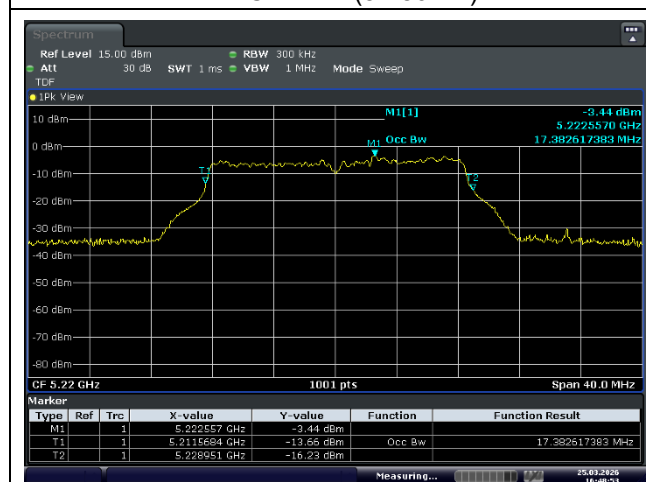
High Channel (5 805 MHz)

99 % Bandwidth

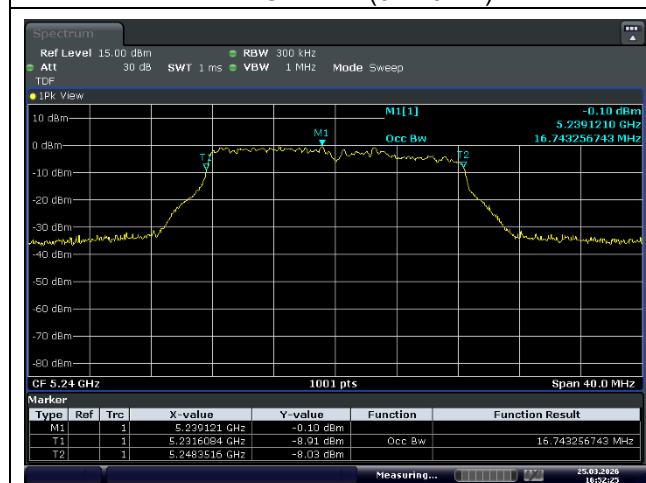
11a (U-NII 1)



Low Channel (5 180 MHz)

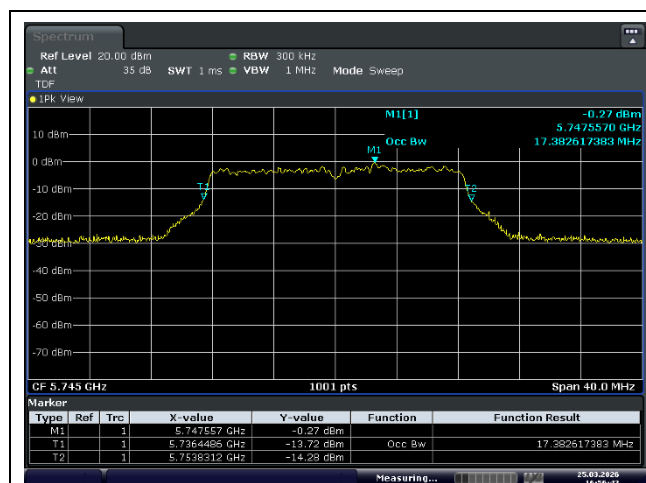


Middle Channel (5 220 MHz)

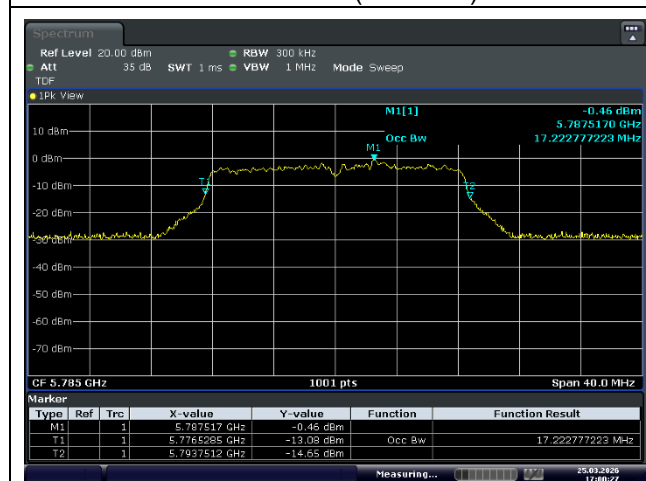


High Channel (5 240 MHz)

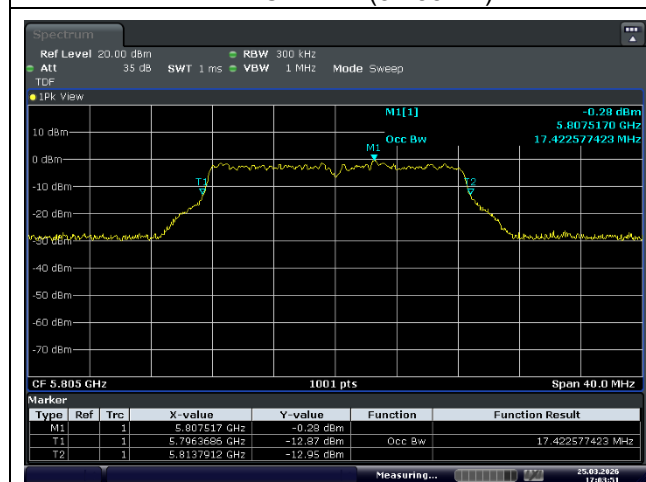
11a (U-NII 3)



Low Channel (5.745 MHz)



Middle Channel (5.785 MHz)

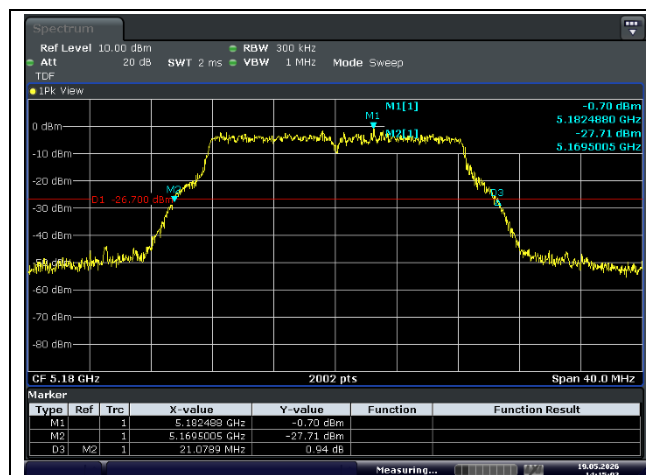


High Channel (5.805 MHz)

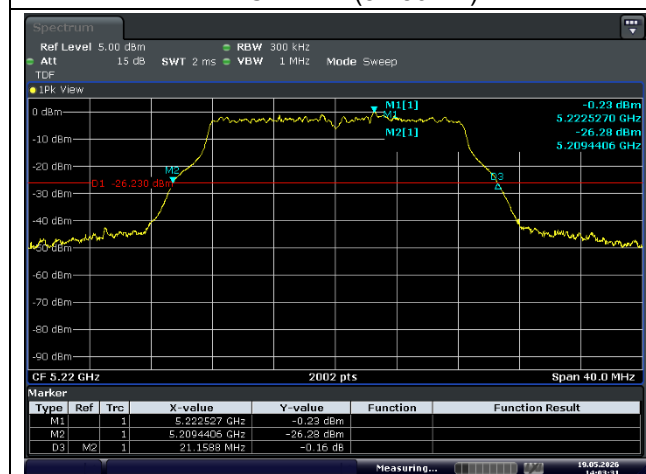
- Ant. 3

26 dB Bandwidth

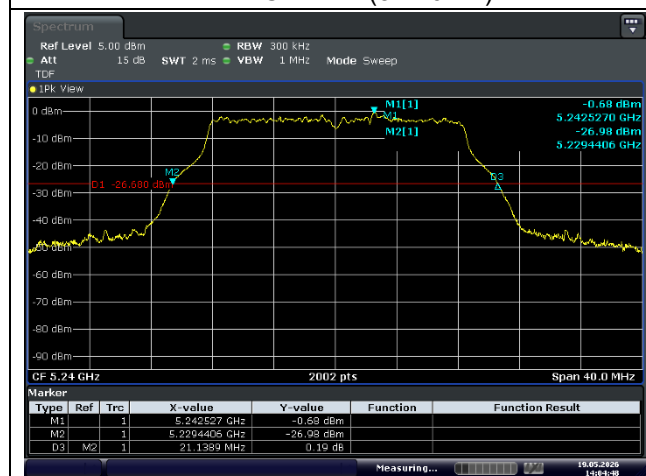
11a (U-NII 1)



Low Channel (5 180 MHz)

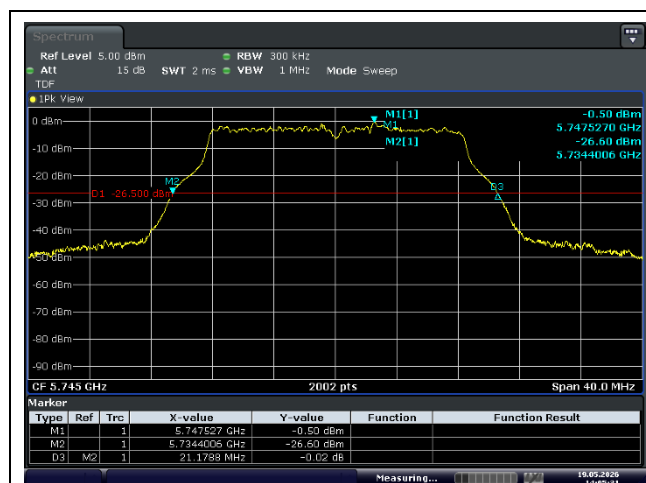


Middle Channel (5 220 MHz)

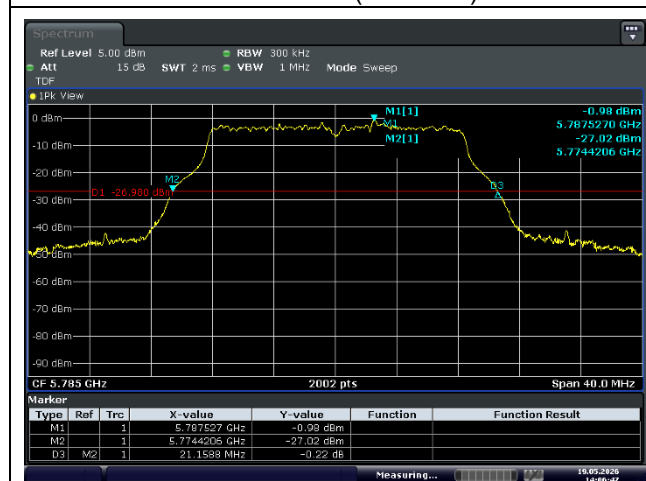


High Channel (5 240 MHz)

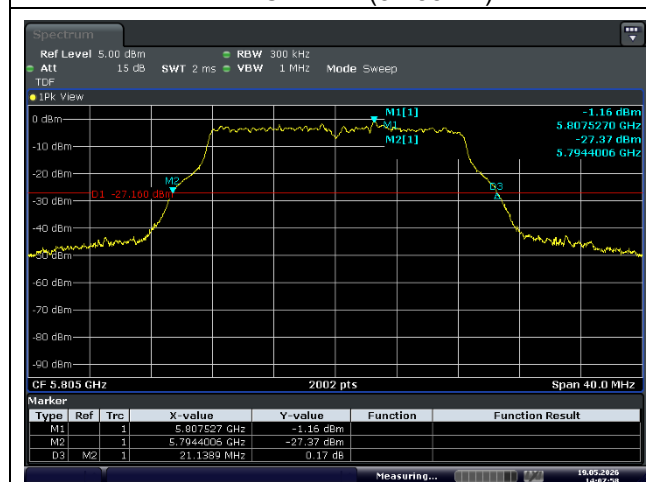
11a (U-NII 3)



Low Channel (5 745 MHz)

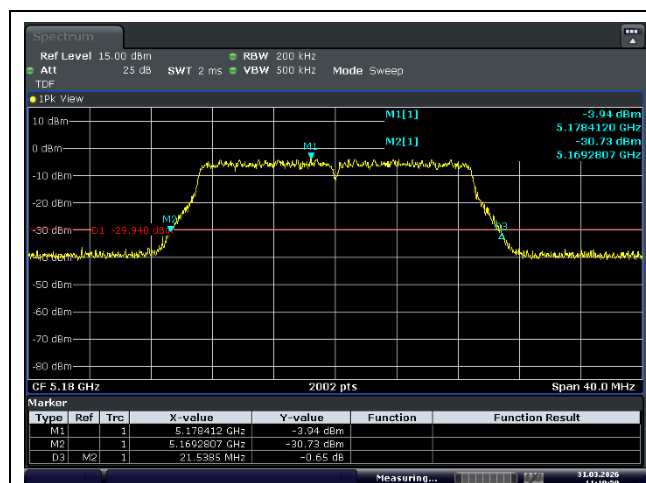


Middle Channel (5 785 MHz)

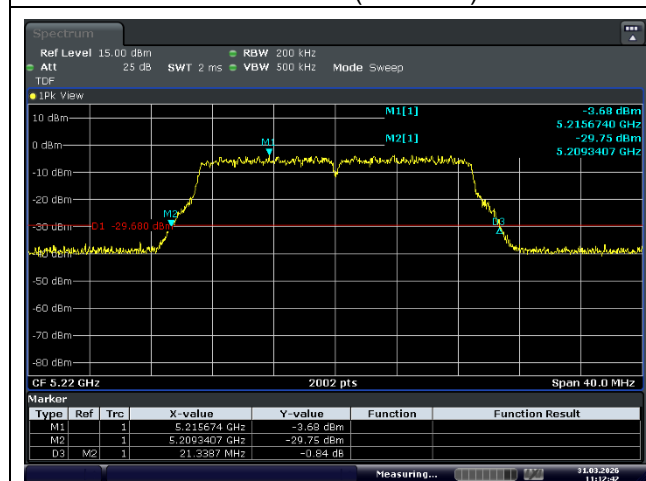


High Channel (5 805 MHz)

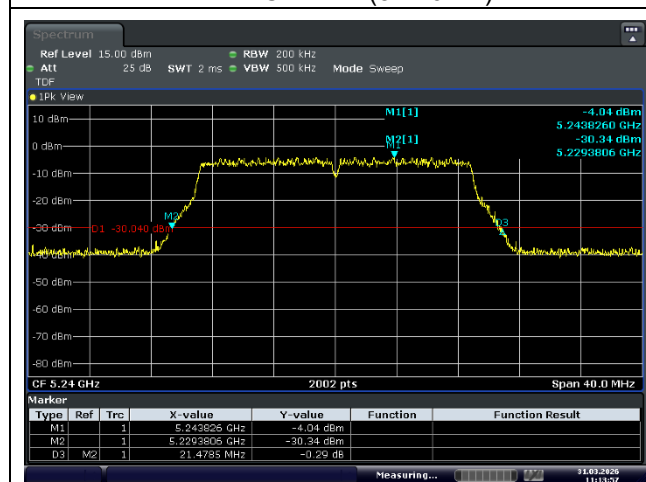
11n_HT20 (U-NII 1)



Low Channel (5 180 MHz)

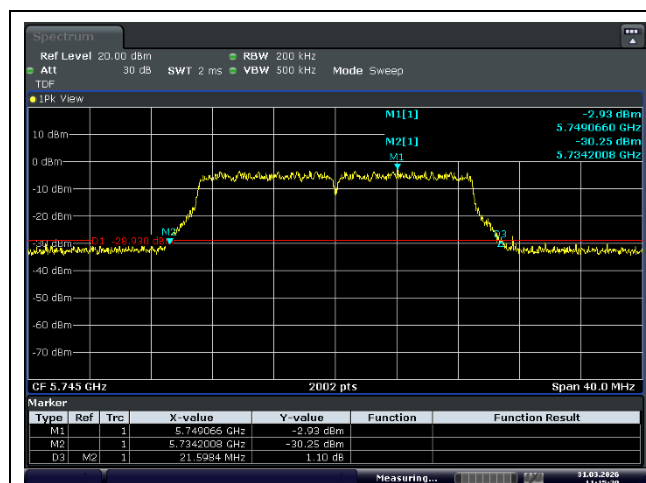


Middle Channel (5 220 MHz)

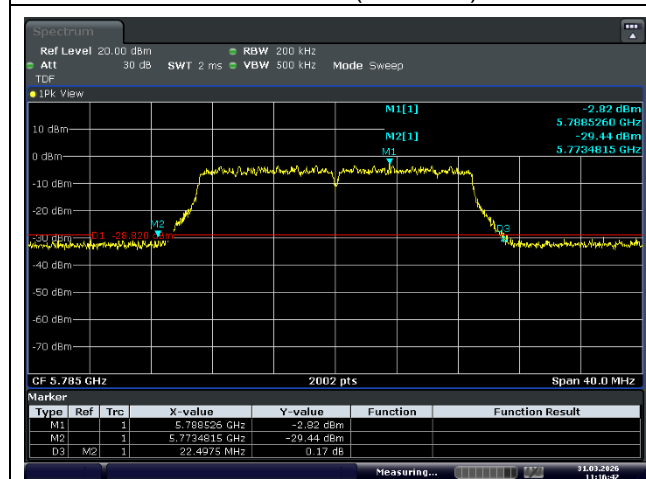


High Channel (5 240 MHz)

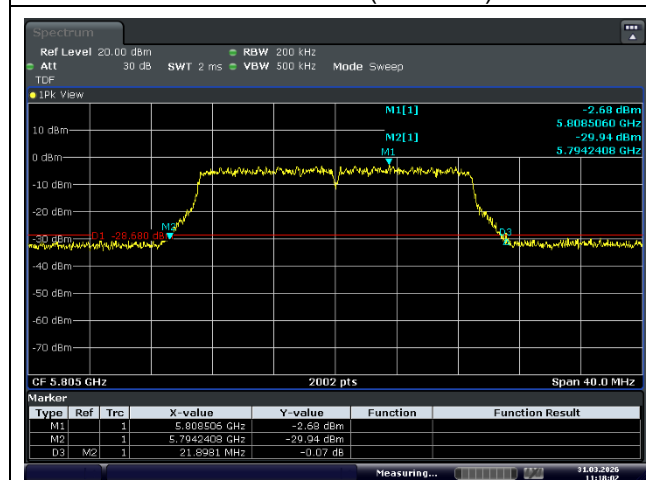
11n_HT20 (U-NII 3)



Low Channel (5.745 MHz)

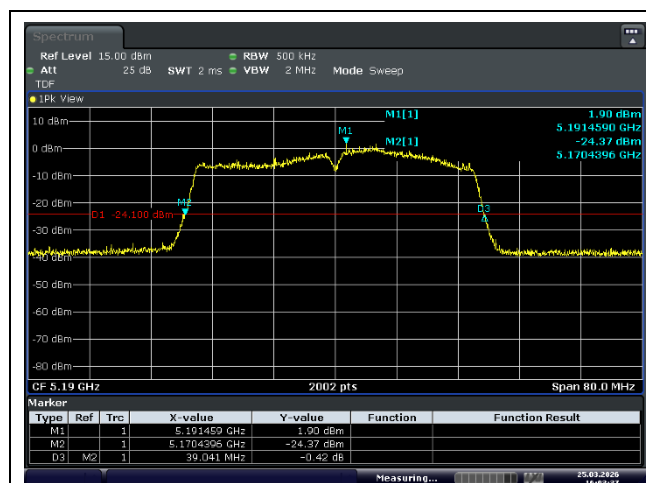


Middle Channel (5.785 MHz)

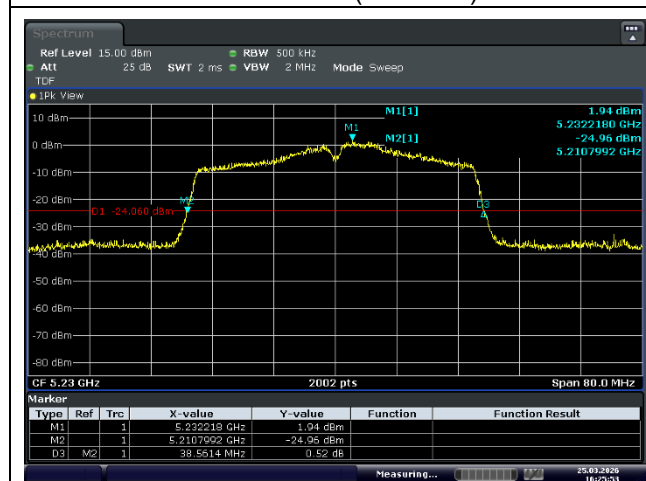


High Channel (5.805 MHz)

11n_HT40 (U-NII 1)

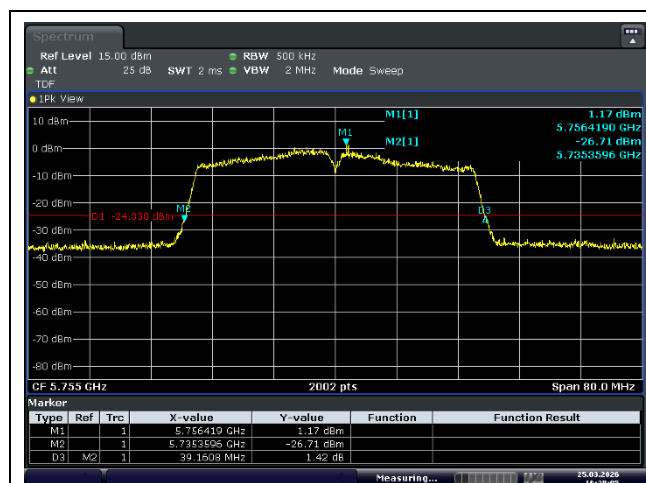


Low Channel (5 190 MHz)

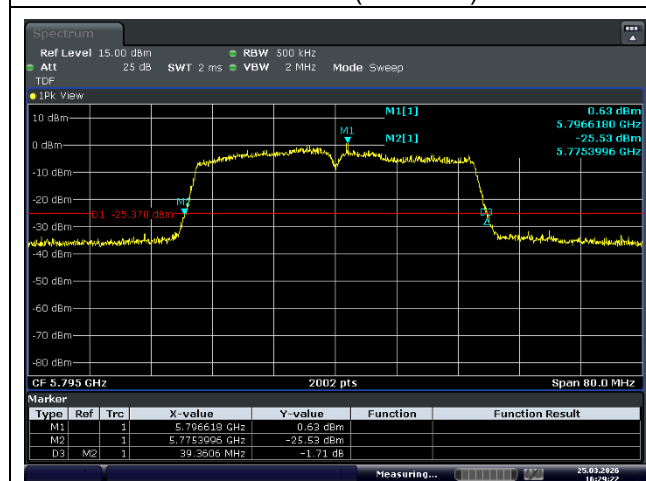


High Channel (5 230 MHz)

11n_HT40 (U-NII 3)

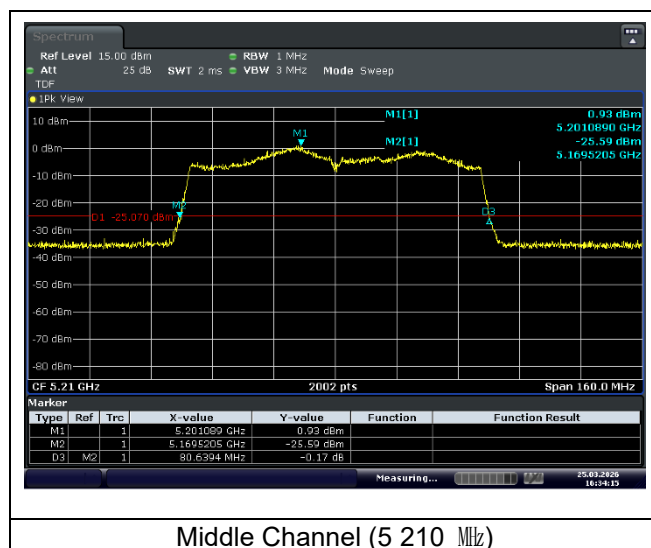


Low Channel (5.755 MHz)



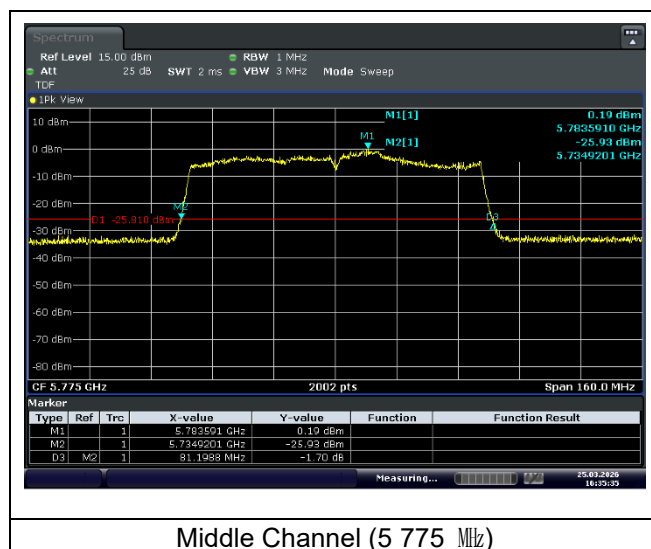
High Channel (5.795 MHz)

11ac_VHT80 (U-NII 1)



Middle Channel (5 210 MHz)

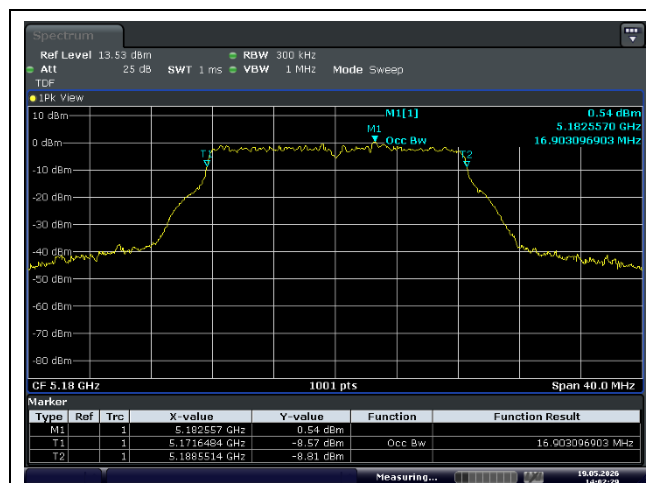
11ac_VHT80 (U-NII 3)



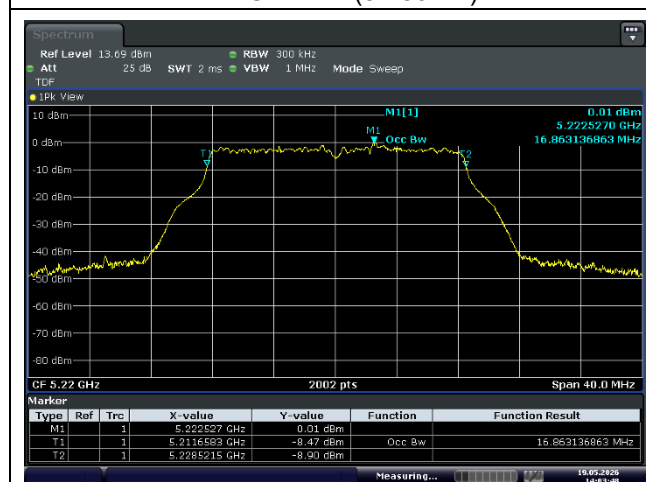
Middle Channel (5 775 MHz)

99 % Bandwidth

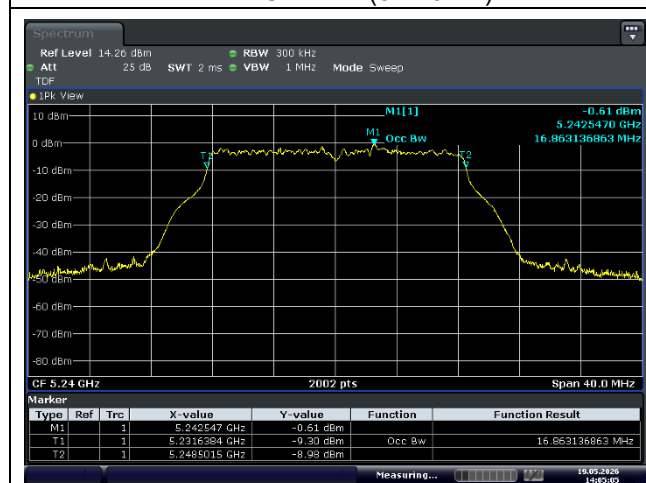
11a (U-NII 1)



Low Channel (5 180 MHz)

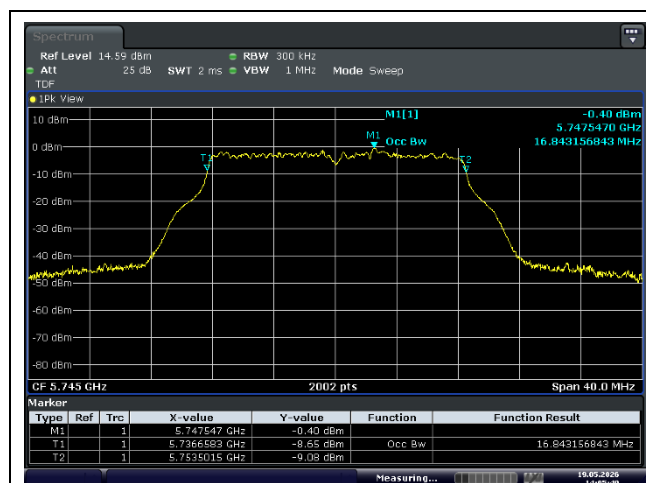


Middle Channel (5 220 MHz)

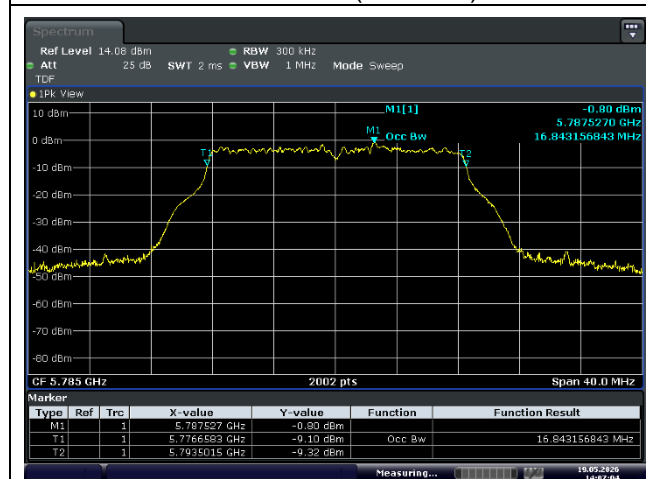


High Channel (5 240 MHz)

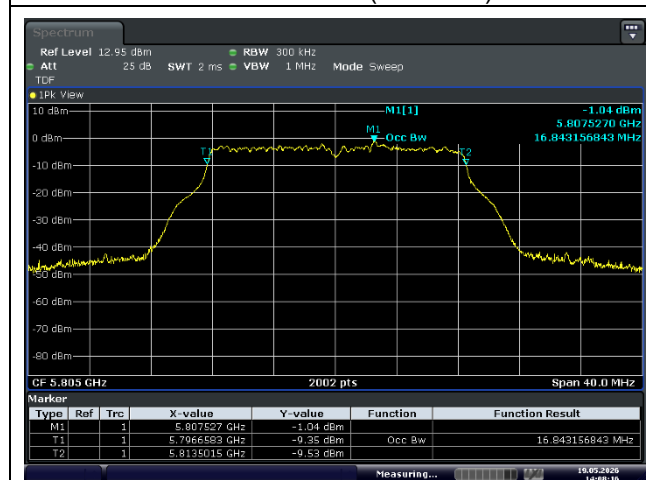
11a (U-NII 3)



Low Channel (5.745 MHz)

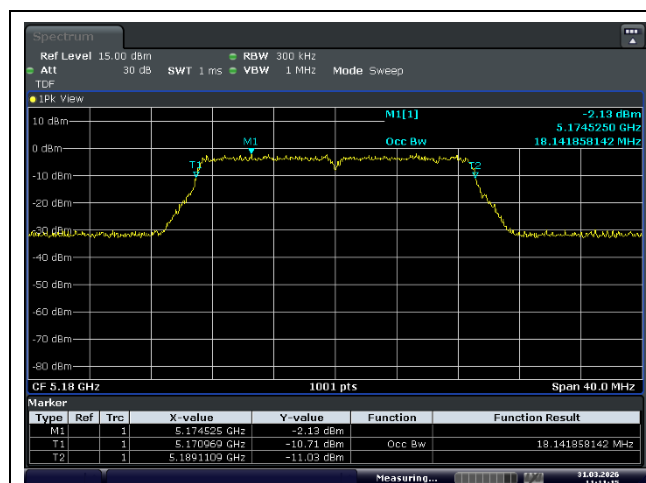


Middle Channel (5.785 MHz)

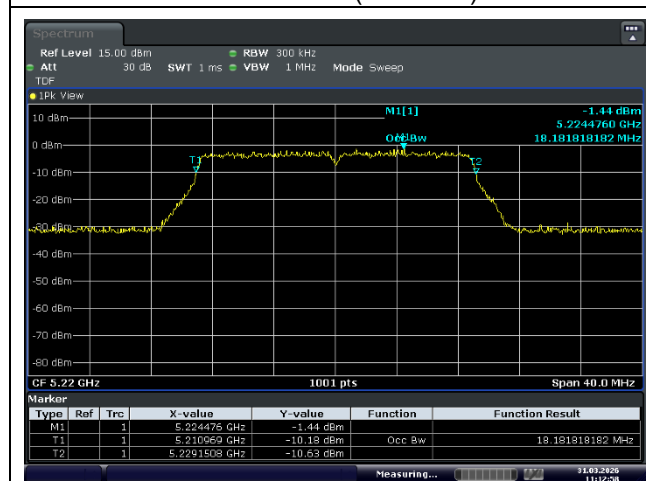


High Channel (5.805 MHz)

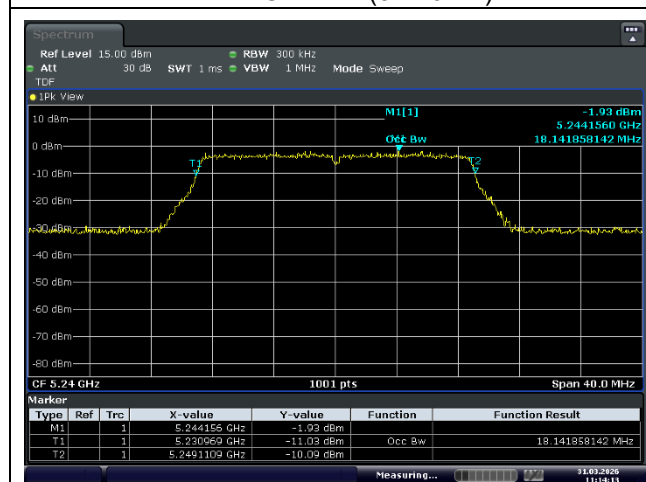
11n_HT20 (U-NII 1)



Low Channel (5 180 MHz)

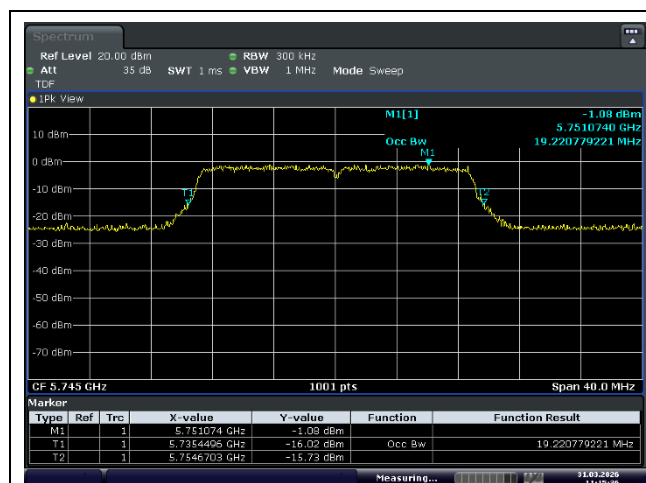


Middle Channel (5 220 MHz)

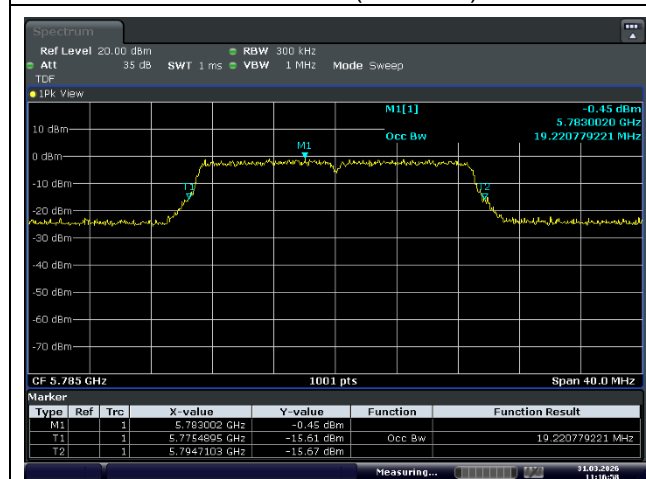


High Channel (5 240 MHz)

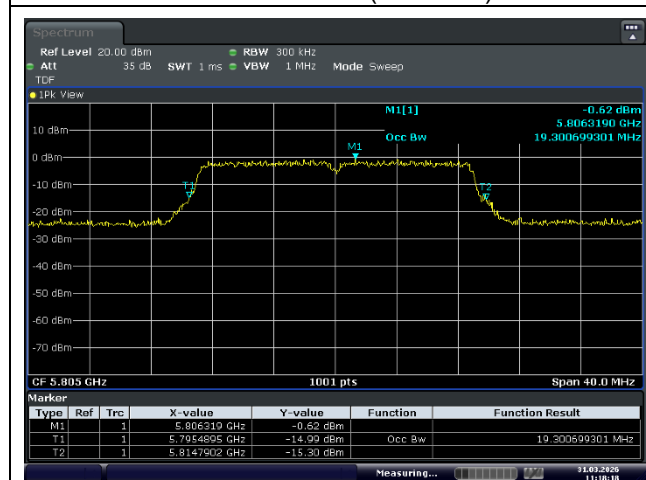
11n_HT20 (U-NII 3)



Low Channel (5.745 MHz)

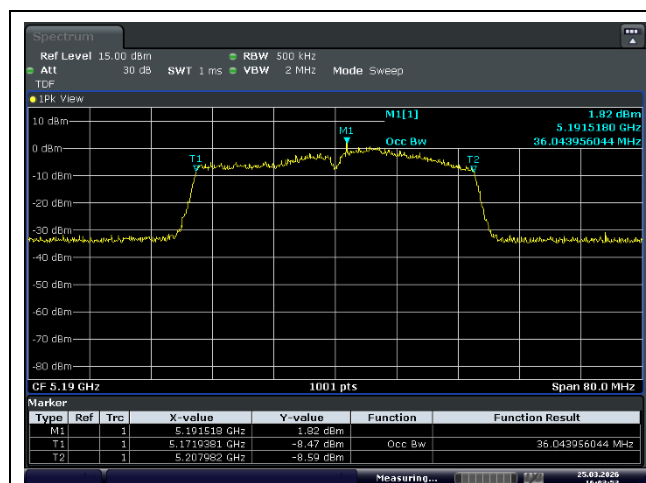


Middle Channel (5.785 MHz)

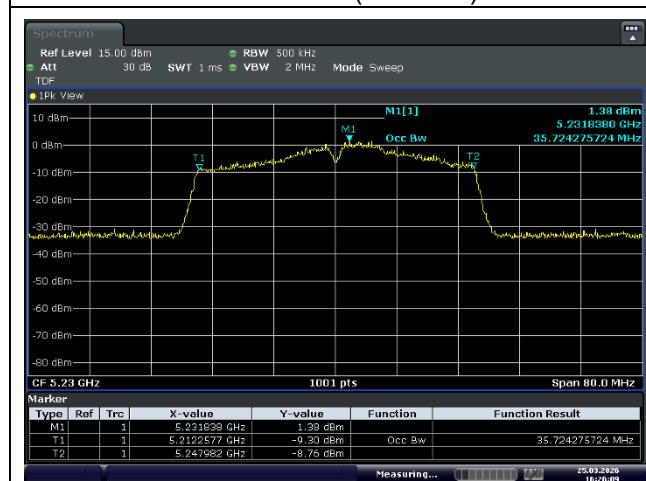


High Channel (5.805 MHz)

11n_HT40 (U-NII 1)

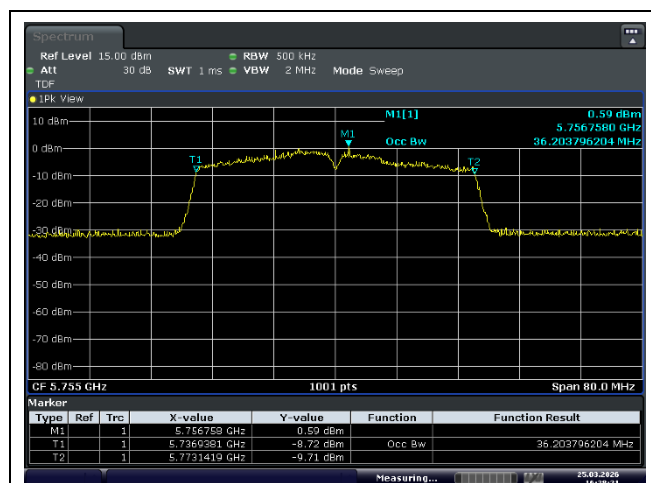


Low Channel (5 190 MHz)

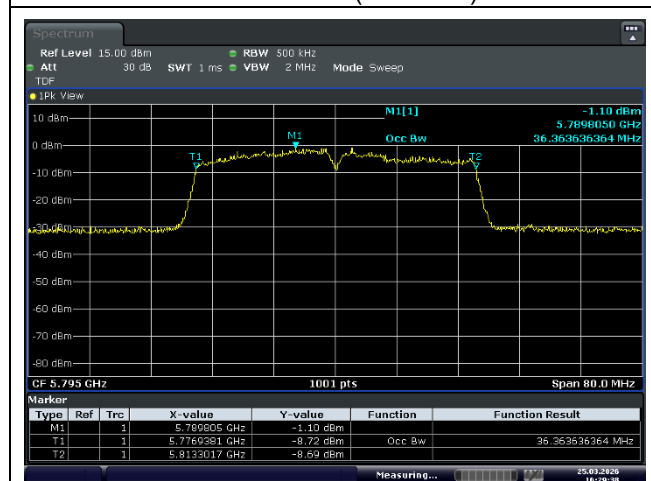


High Channel (5 230 MHz)

11n_HT40 (U-NII 3)

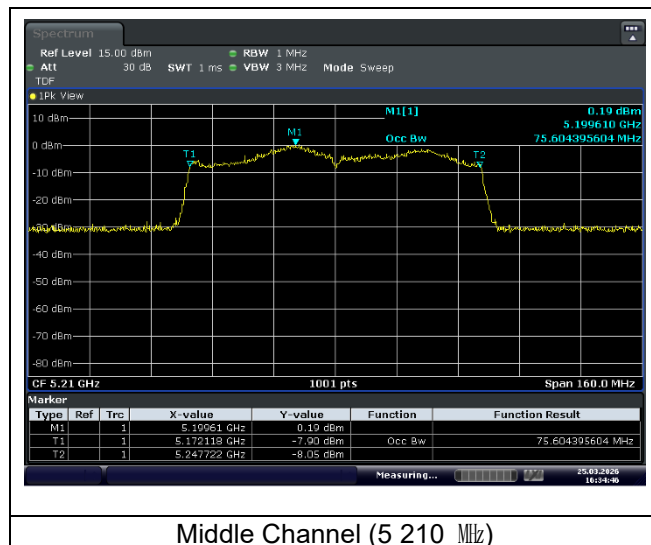


Low Channel (5.755 MHz)

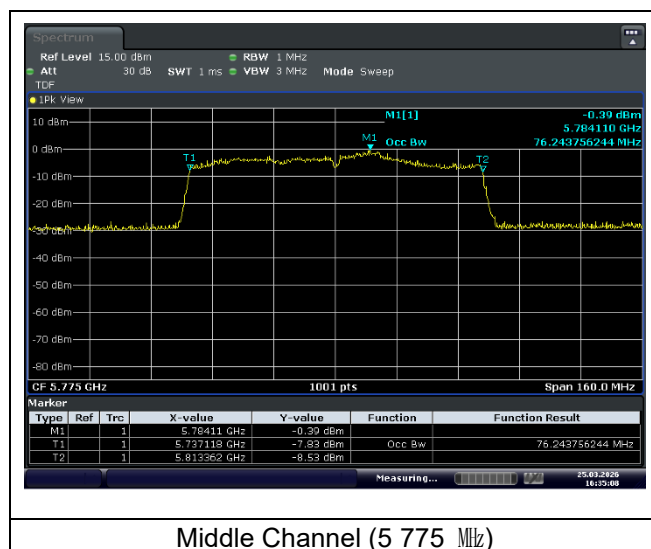


High Channel (5.795 MHz)

11ac_VHT80 (U-NII 1)



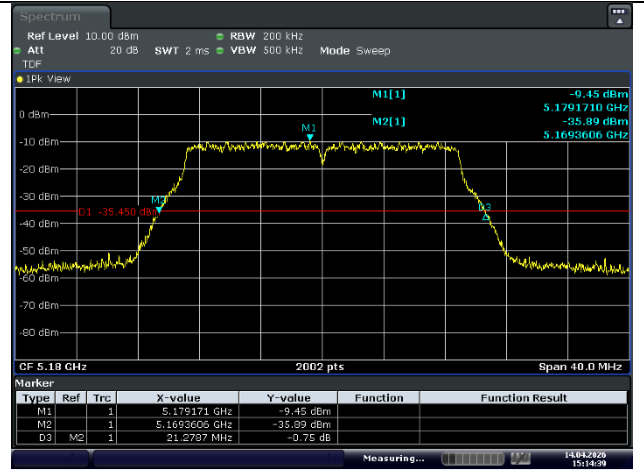
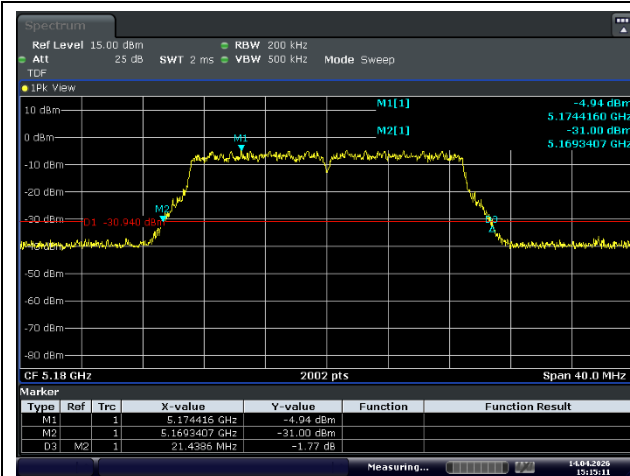
11ac_VHT80 (U-NII 3)



- Ant. 1 + Ant. 2

26 dB Bandwidth

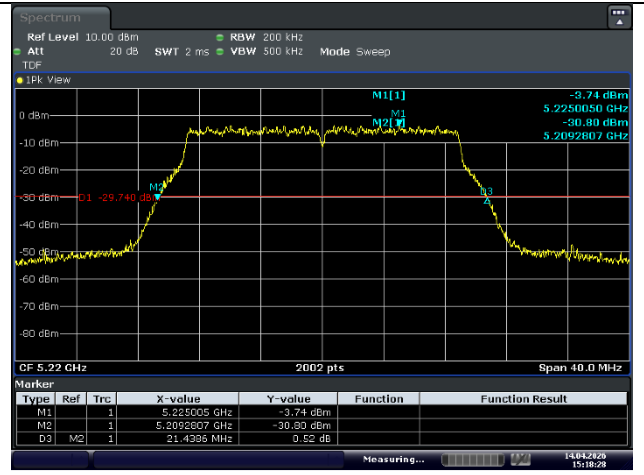
11n_HT20 (U-NII 1)



Date: 14 APR 2026 15:14:39

Ant. 1_Low Channel (5 180 MHz)

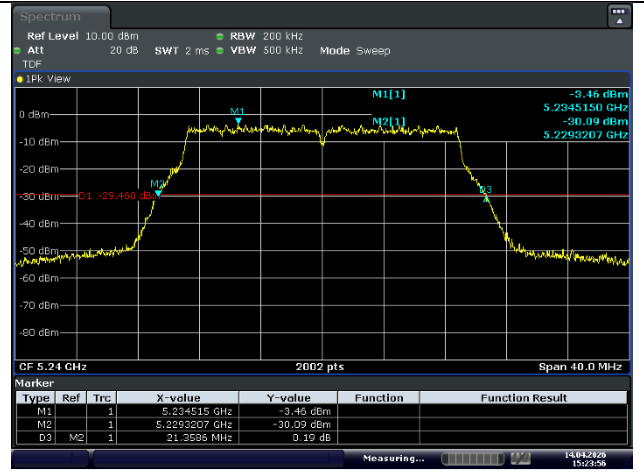
Ant. 2_Low Channel (5 180 MHz)



Date: 14 APR 2026 15:19:28

Ant. 1_Middle Channel (5 220 MHz)

Ant. 2_Middle Channel (5 220 MHz)

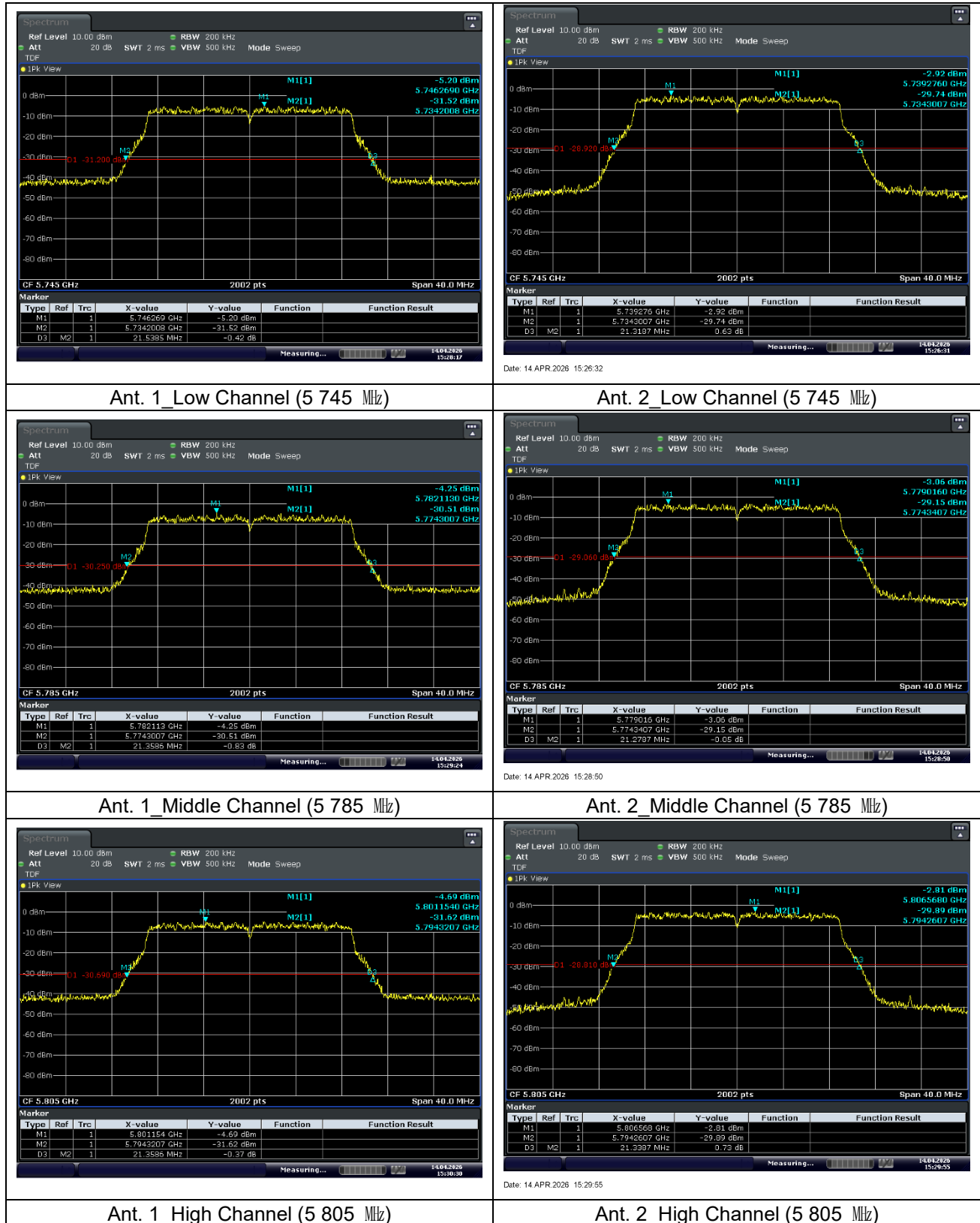


Date: 14 APR 2026 15:24:56

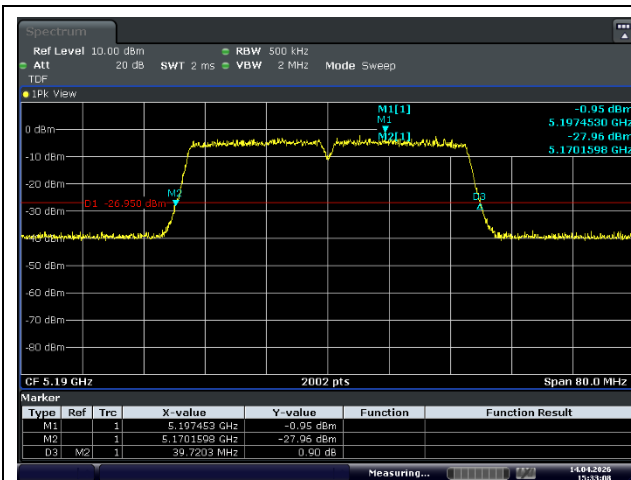
Ant. 1_High Channel (5 240 MHz)

Ant. 2_High Channel (5 240 MHz)

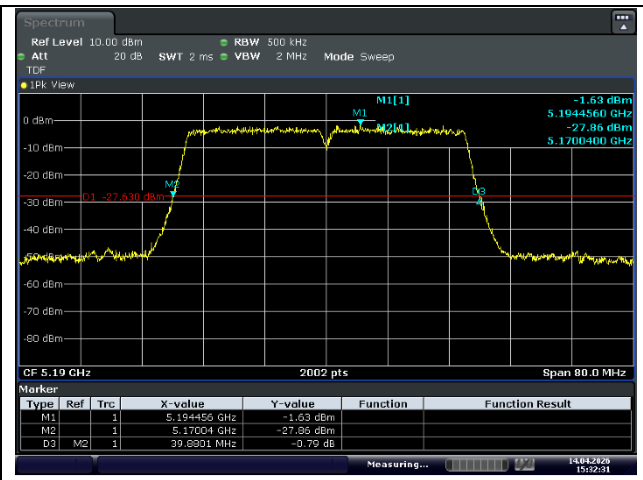
11n_HT20 (U-NII 3)



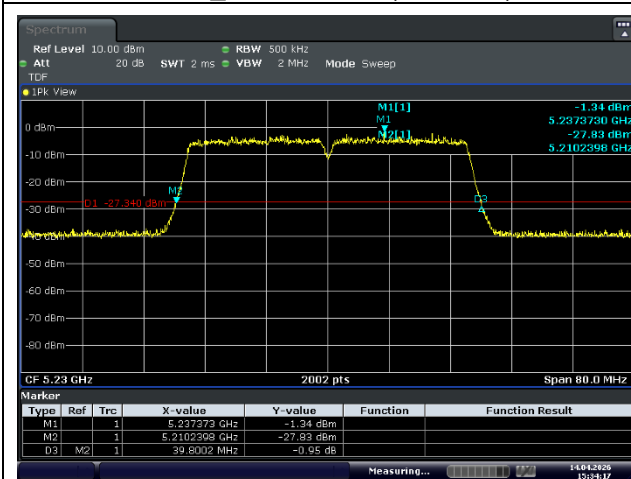
11n_HT40 (U-NII 1)



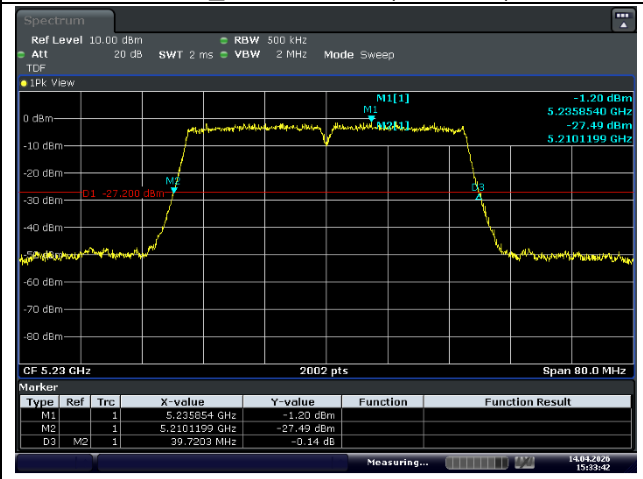
Ant. 1_Low Channel (5 190 MHz)



Ant. 2_Low Channel (5 190 MHz)

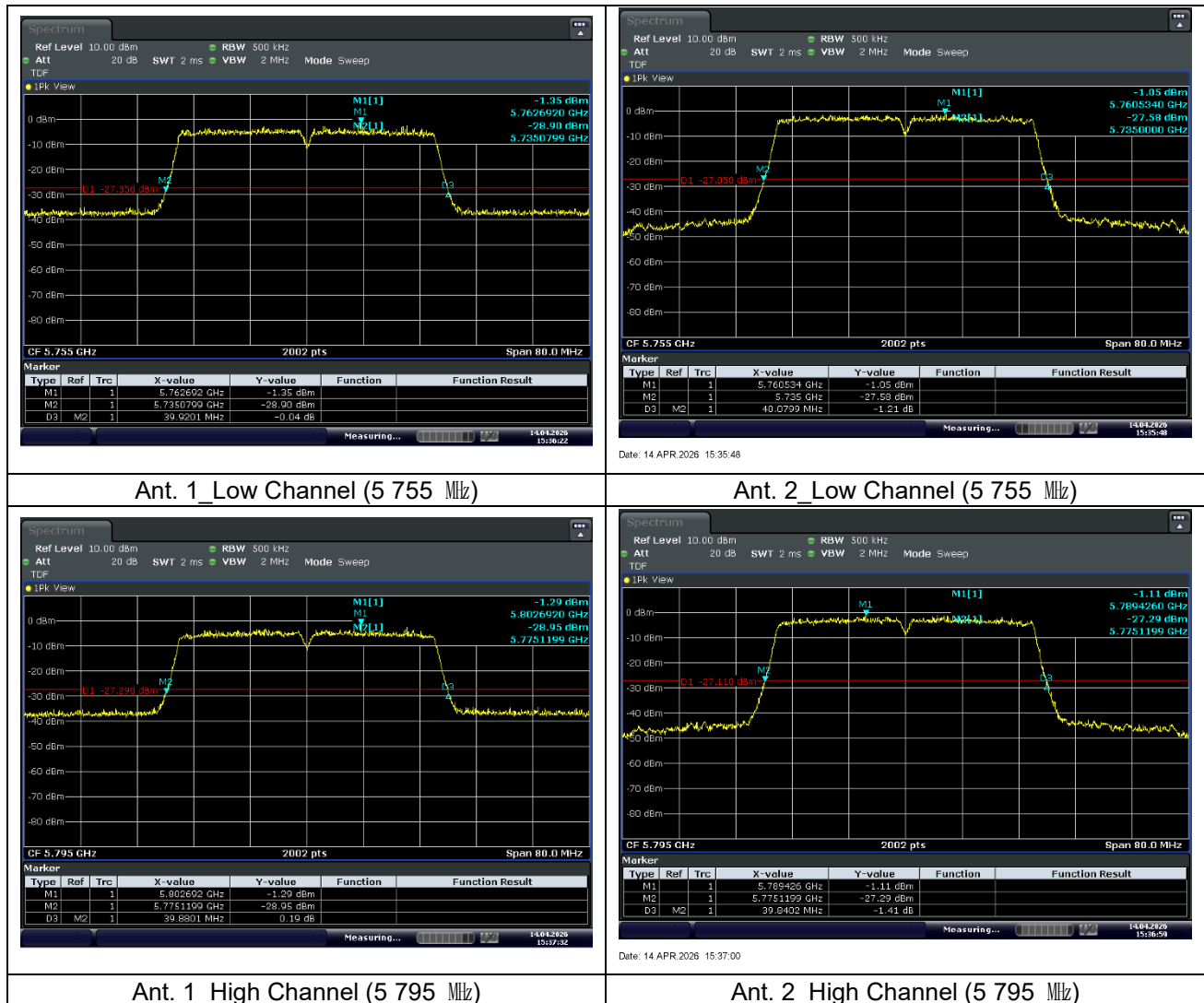


Ant. 1_High Channel (5 230 MHz)

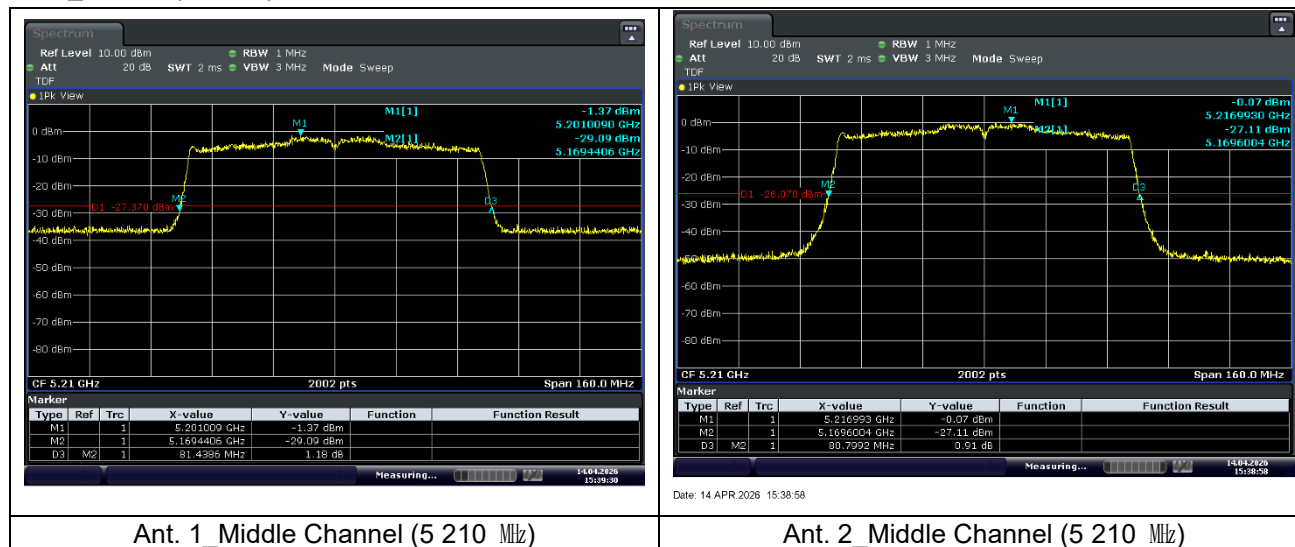


Ant. 2_High Channel (5 230 MHz)

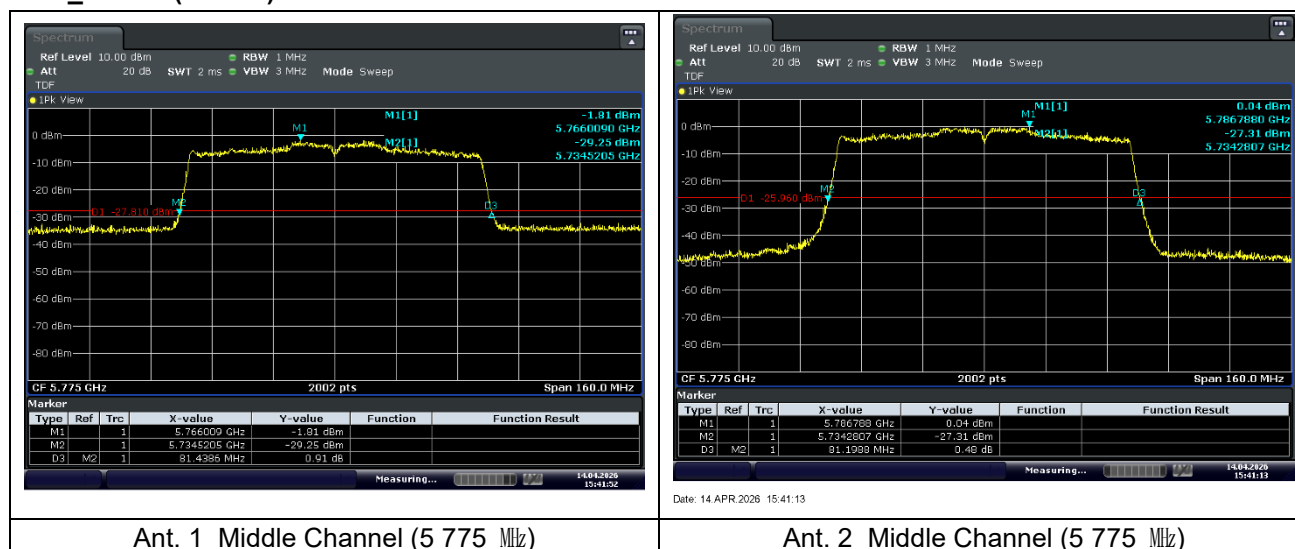
11n_HT40 (U-NII 3)



11ac_VHT80 (U-NII 1)

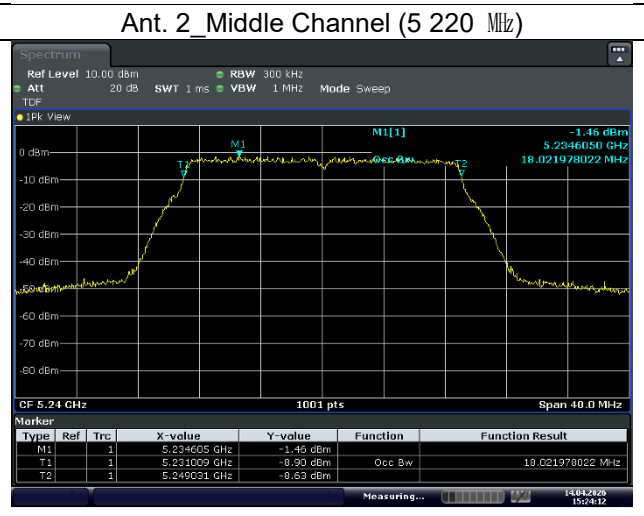
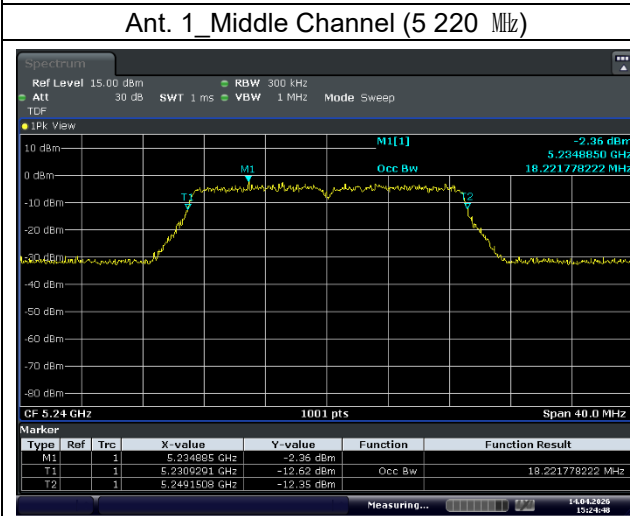
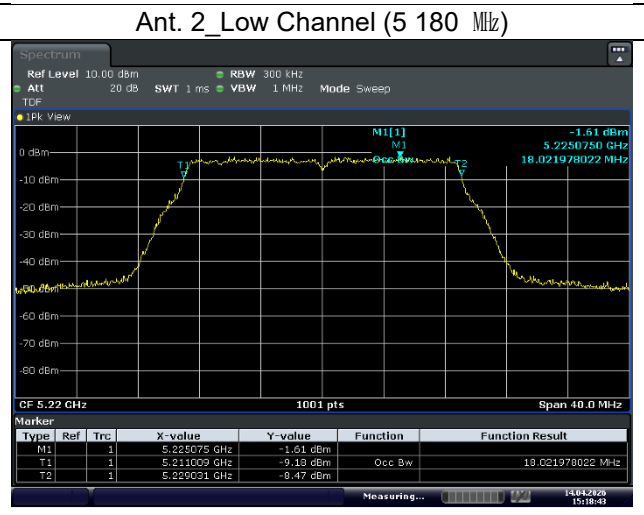
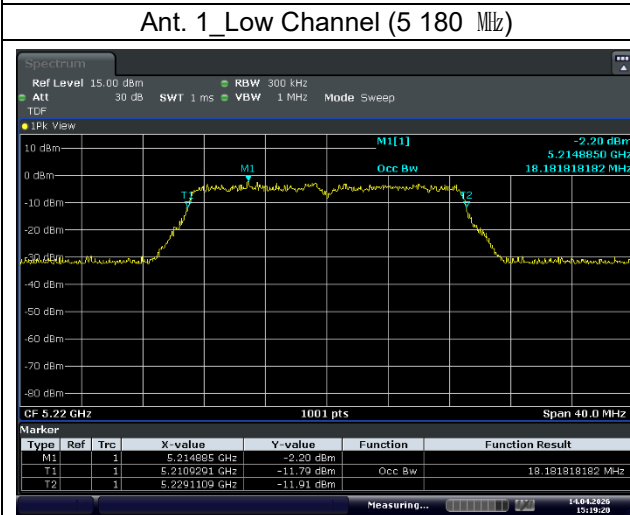
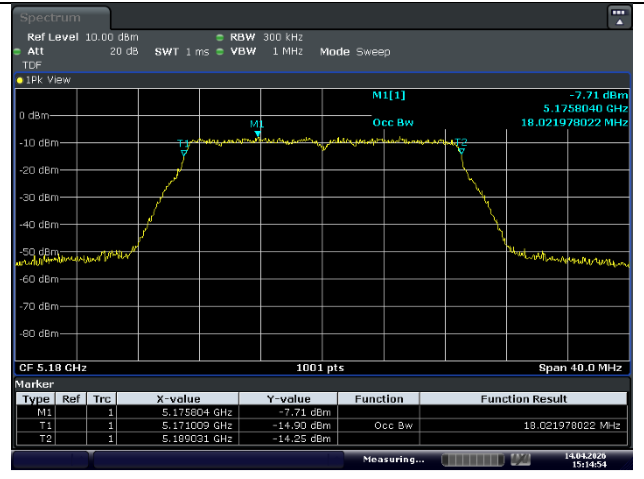
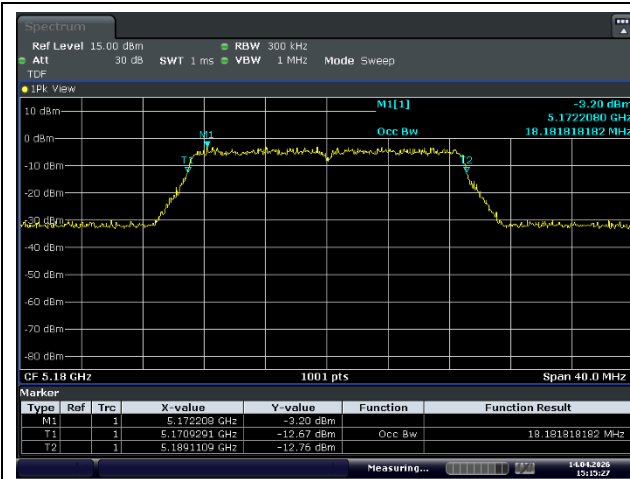


11ac_VHT80 (U-NII 3)

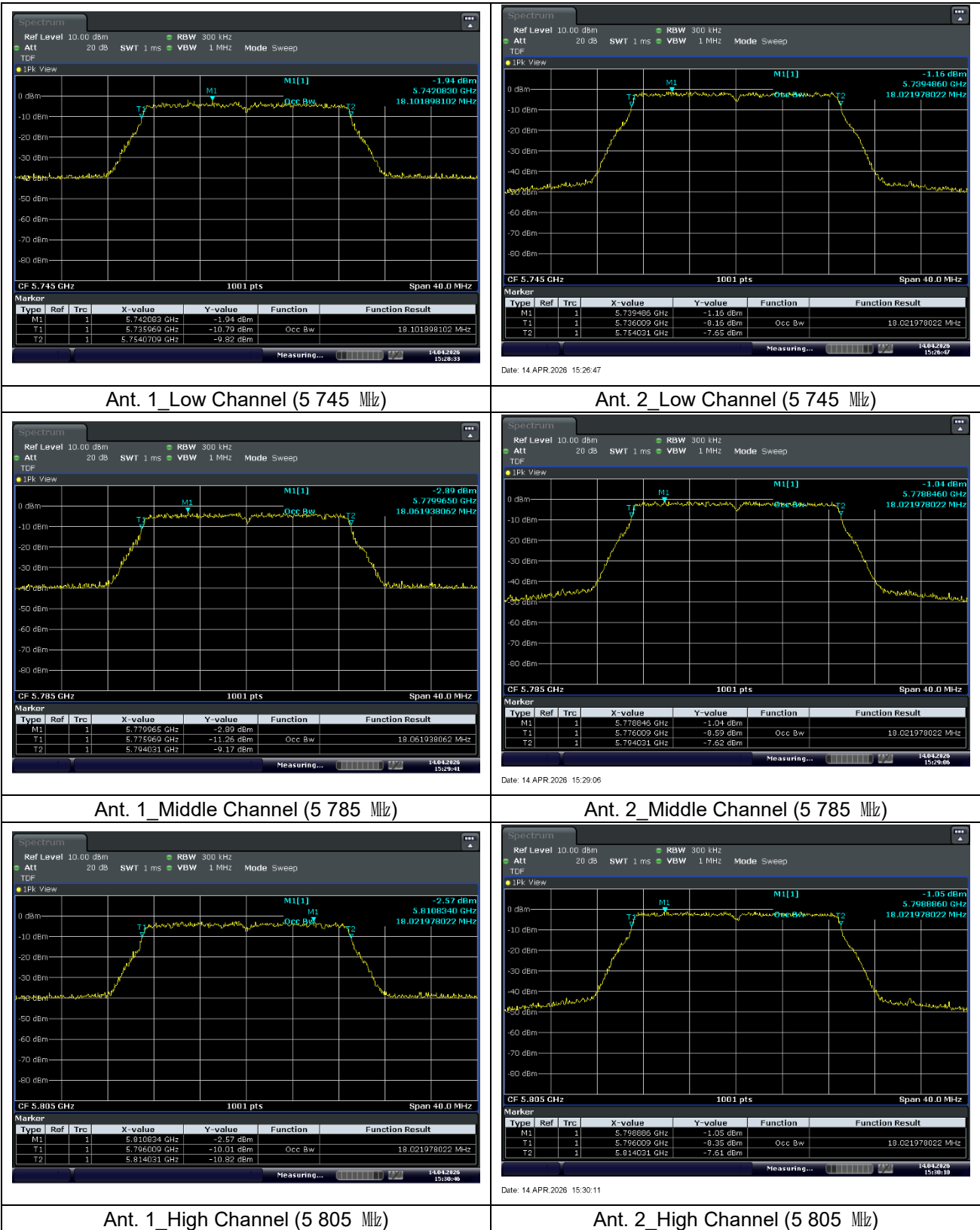


99 % Bandwidth

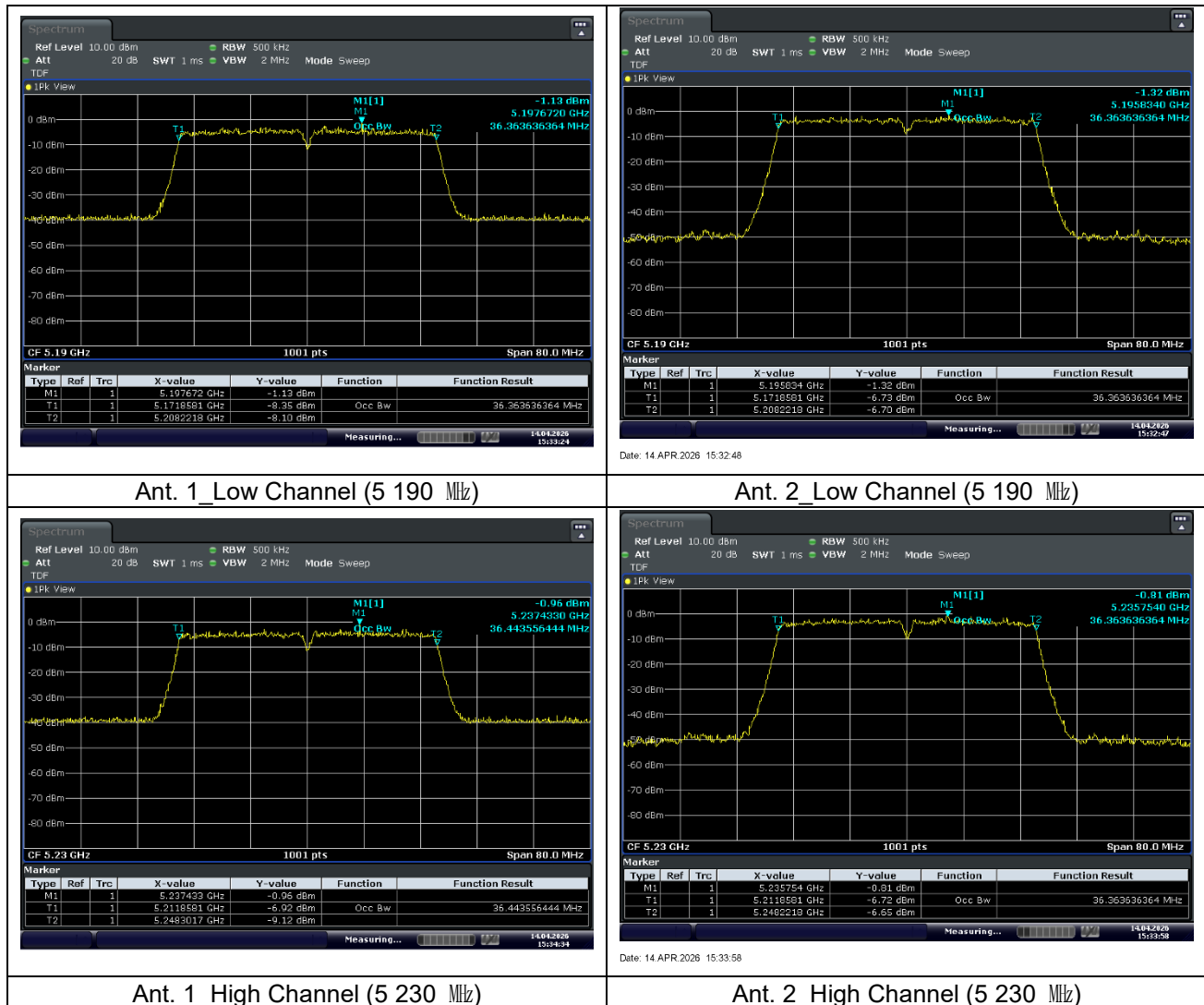
11n_HT20 (U-NII 1)



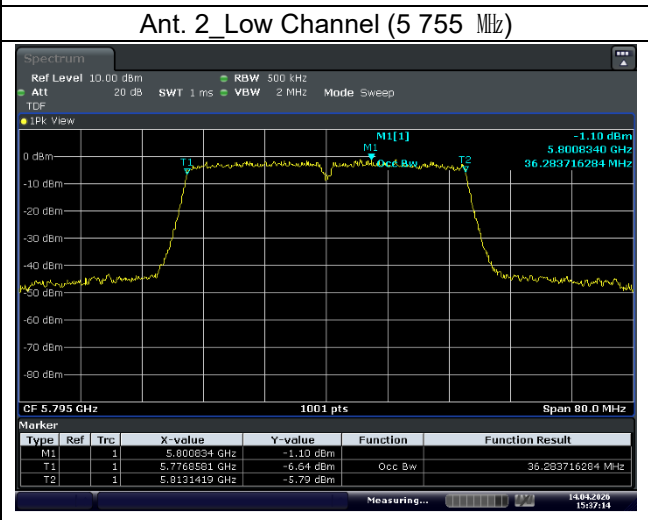
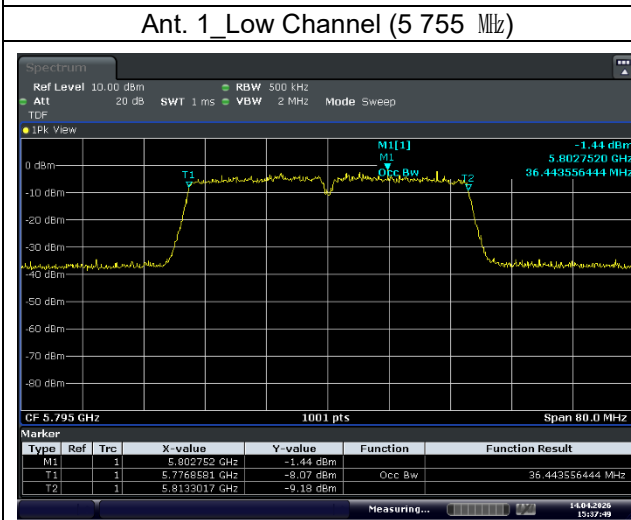
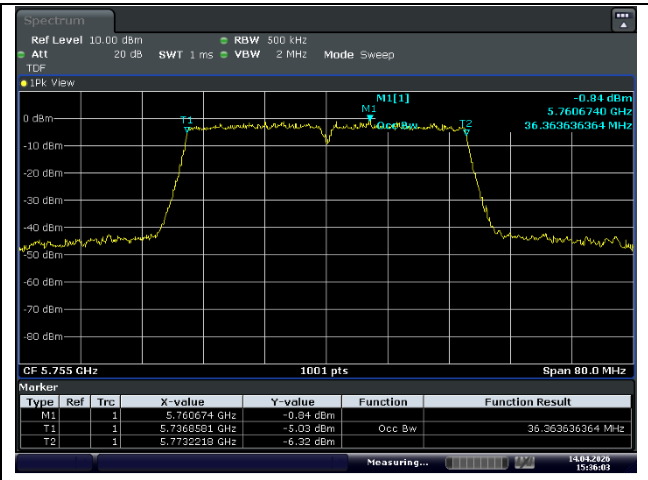
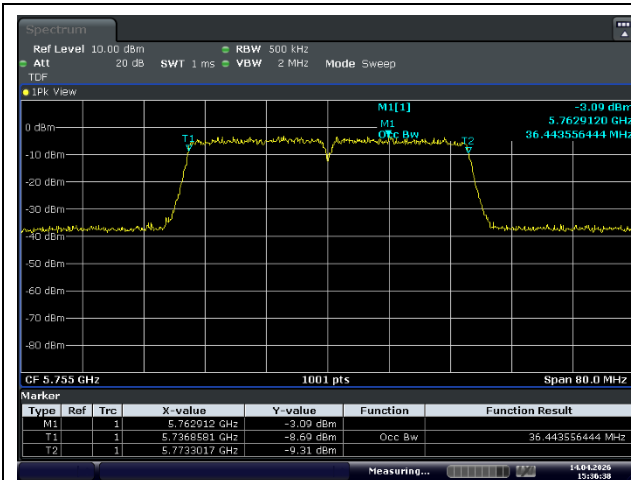
11n_HT20(U-NII 3)



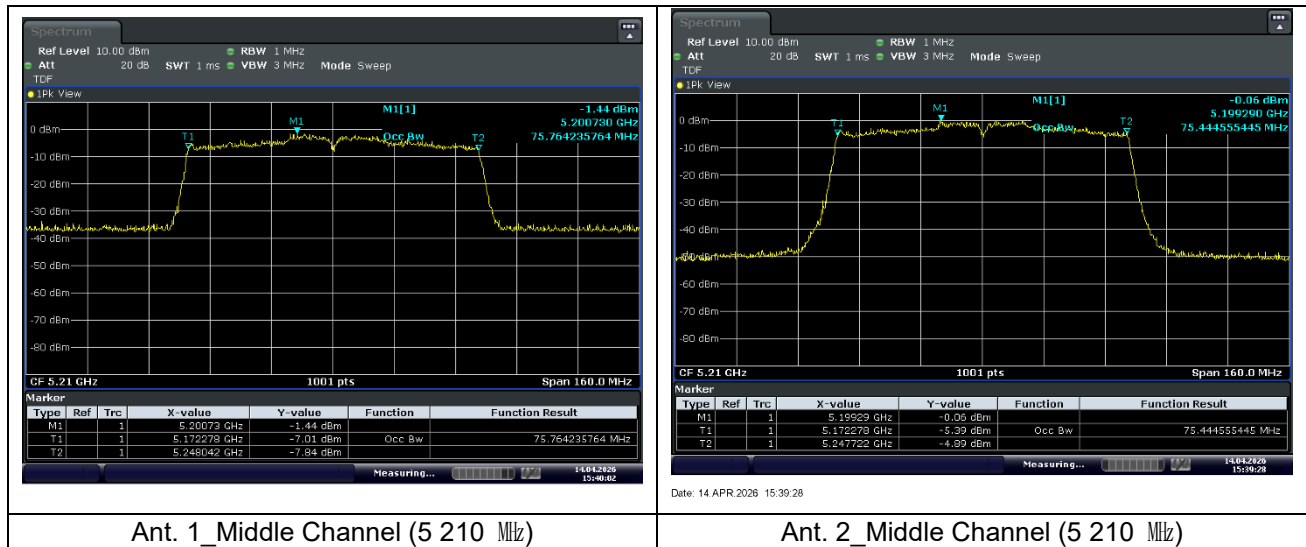
11n_HT40 (U-NII 1)



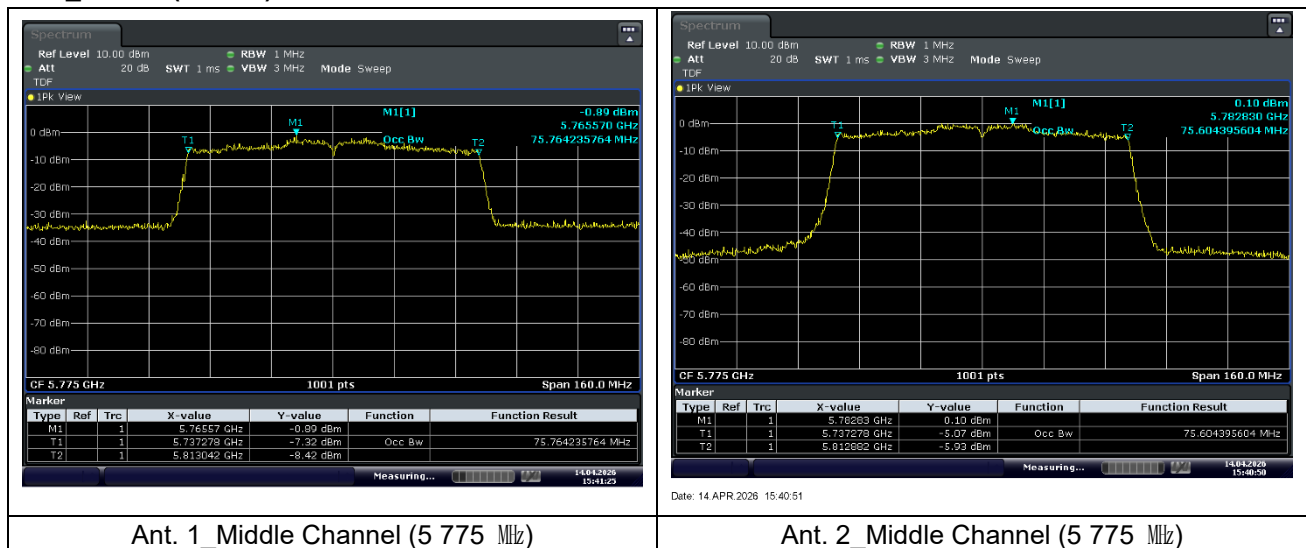
11n_HT40 (U-NII 3)



11ac_VHT80 (U-NII 1)

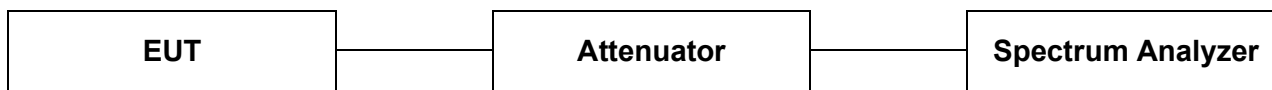


11ac_VHT80 (U-NII 3)



4. 6 dB Bandwidth

4.1. Test Setup



4.2. Limit

According to §15.407(e), within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

4.3. Test Procedure

1. This measurement settings are specified in section II.C.2 of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set RBW = 100 kHz.
3. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

4.4. Test Result

Ambient temperature : (23 ± 1) °C

Relative humidity : 47 %

- Ant. 1

Band	Mode	Frequency (MHz)	Ch.	Data Rate	6 dB Bandwidth (MHz)	Minimum Bandwidth (kHz)
U-NII 3	11a	5 745	149	54 Mbps	16.504	500
		5 785	157		16.524	
		5 805	161		16.504	

- Ant. 2

Band	Mode	Frequency (MHz)	Ch.	Data Rate	6 dB Bandwidth (MHz)	Minimum Bandwidth (kHz)
U-NII 3	11a	5 745	149	54 Mbps	16.504	500
		5 785	157		16.464	
		5 805	161		16.524	

- Ant. 3

Band	Mode	Frequency (MHz)	Ch.	Data Rate	6 dB Bandwidth (MHz)	Minimum Bandwidth (kHz)
U-NII 3	11a	5 745	149	54 Mbps	16.524	500
		5 785	157		16.524	
		5 805	161		16.504	
	11n_HT20	5 745	149	MCS6	17.742	
		5 785	157		17.702	
		5 805	161		17.762	
	11n_HT40	5 755	151	MCS6	35.205	
		5 795	159		35.445	
	11ac_VHT80	5 775	155	MCS7	75.285	

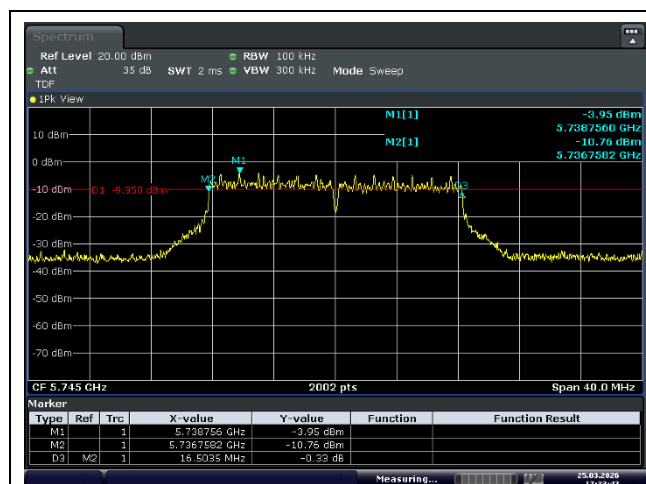
- Ant. 1 + Ant. 2

Band	Mode	Frequency (MHz)	Ch.	Data Rate	6 dB Bandwidth (MHz)		Minimum Bandwidth (kHz)
					Ant. 1	Ant. 2	
U-NII 3	11n_HT20	5 745	149	MCS7	17.722	17.762	500
		5 785	157		17.722	17.762	
		5 805	161		17.722	17.702	
	11n_HT40	5 755	151	MCS4	36.524	36.484	
		5 795	159		36.484	36.484	
	11ac_VHT80	5 775	155	MCS4	75.844	75.525	

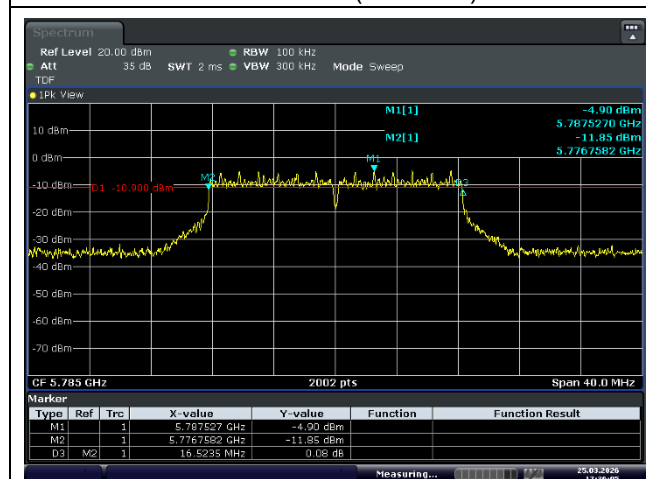
Test plots

- Ant. 1

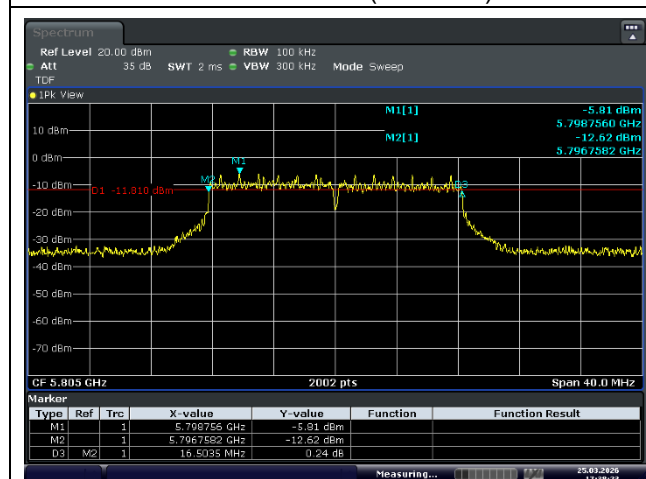
11a (U-NII 3)



Low Channel (5.745 MHz)



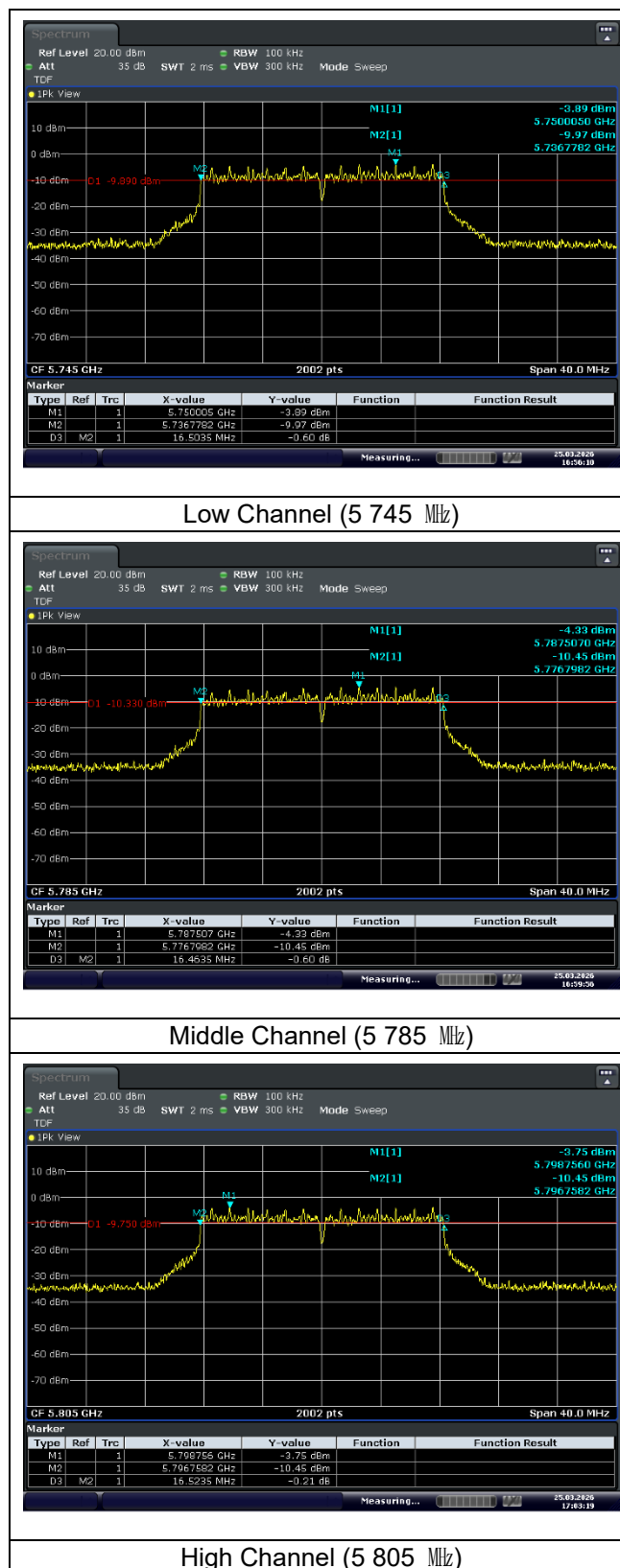
Middle Channel (5.785 MHz)



High Channel (5.805 MHz)

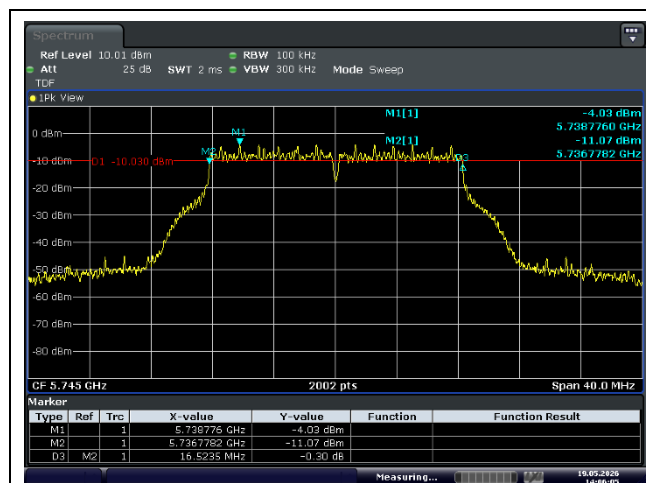
- Ant. 2

11a (U-NII 3)

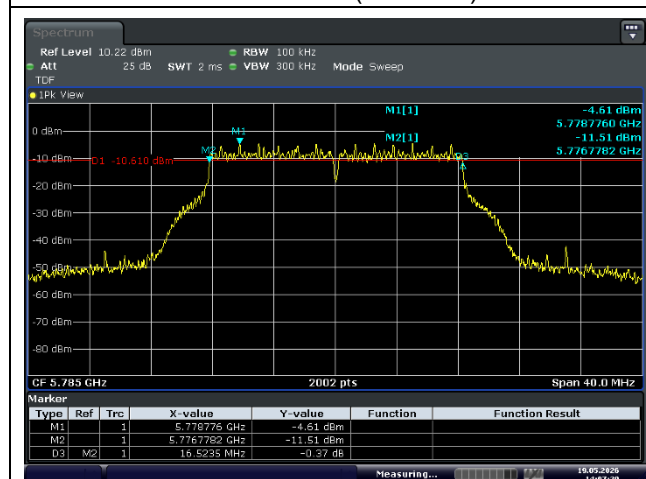


- Ant. 3

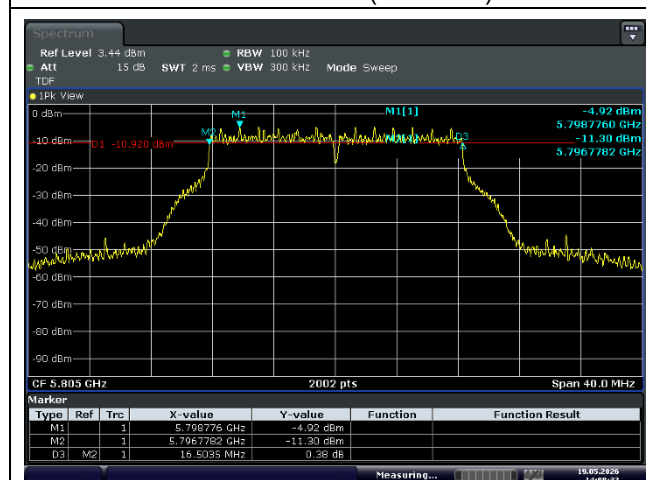
11a (U-NII 3)



Low Channel (5.745 MHz)

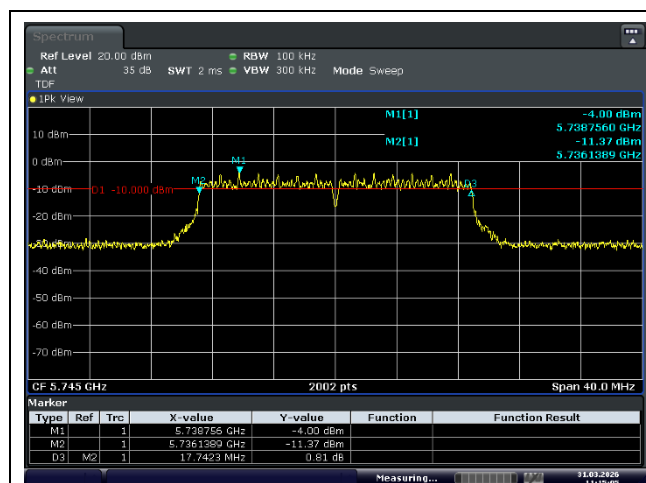


Middle Channel (5.785 MHz)

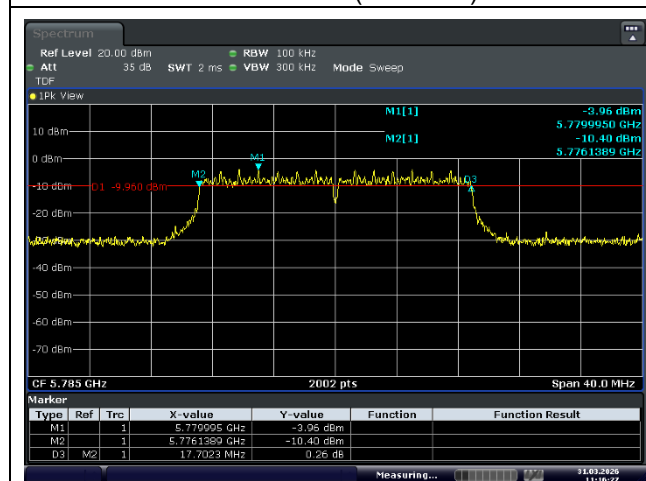


High Channel (5.805 MHz)

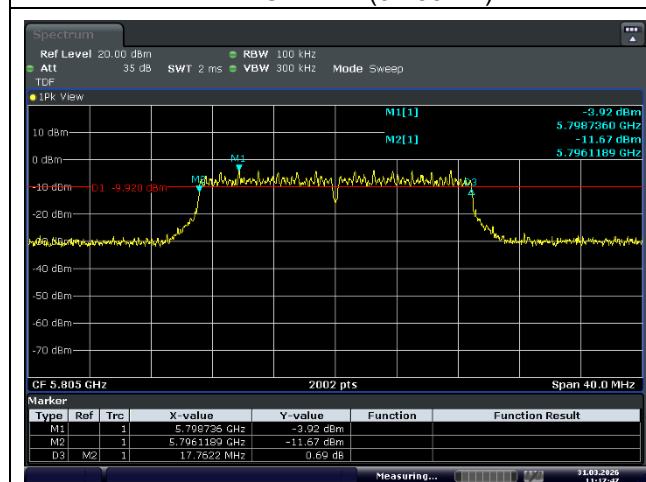
11n_HT20 (U-NII 3)



Low Channel (5745 MHz)

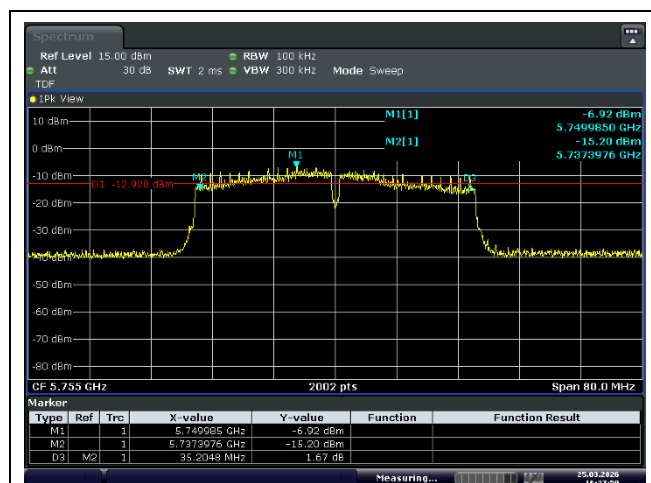


Middle Channel (5785 MHz)

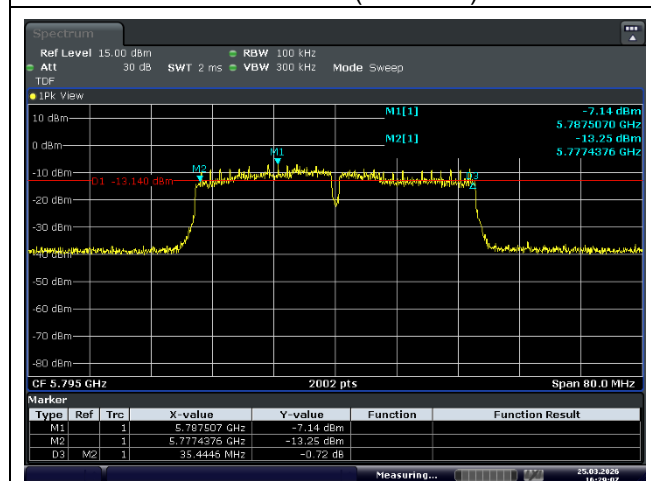


High Channel (5805 MHz)

11n_HT40 (U-NII 3)

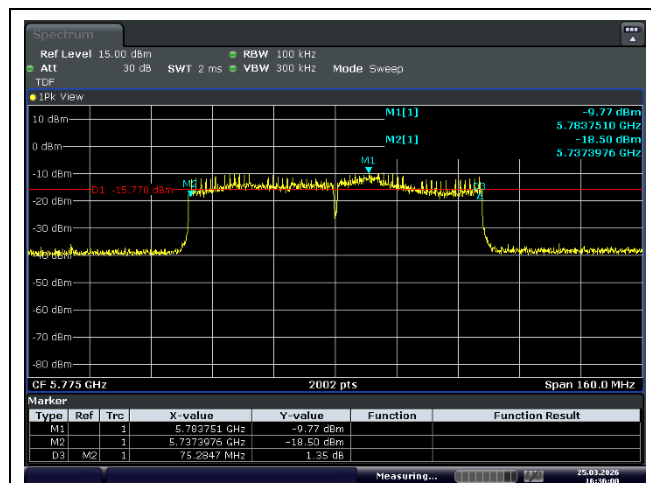


Low Channel (5.755 MHz)



High Channel (5.795 MHz)

11ac_VHT80 (U-NII 3)



Middle Channel (5.775 MHz)

- Ant. 1 + Ant. 2

11n_HT20 (U-NII 3)

